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<210> 735

<211> 724

<212> DNA

<213> Homo sapiens

<400> 735

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<210> 736

<211> 355

<212> DNA

<213> Homo sapiens

<400> 736

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<210> 737

<211> 228

<212> DNA

<213> Homo sapiens

<400> 737

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aaactggtag	tcataaatga	tgaatgtctg	aggctcacat	tctggctgca	ctgcaatgct	180

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228

<210> 738

<211> 708

<212> DNA

<213> Homo sapiens

<400> 738

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<210> 739

<211> 1798

<212> DNA

<213> Homo sapiens

<400> 739

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<210> 740

<211> 393

<212> DNA

<213> Homo sapiens

<400> 740

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tcataatcagt	tcttcttgaa	atgccggtgg	gtggaacact	acatgatcac	tctccaggcg	360
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<210> 741

<211> 360

<212> DNA

<213> Homo sapiens

<400> 741

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gaccacaaa	gccatgatcc	tgcaactcaa	tcccagttag	aactgcacct	ggacaataga	300
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<210> 742

<211> 908

<212> DNA

<213> Homo sapiens

<400> 742

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aagggtgagaa	ggaagggtcag	gaagaacatg	gcctggccaa	atgtttttca	aagaggggtct	180
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tcgttgctcc	atgcttcacg	aaaaacattt	agcaatgtca	aagtcagtat	ctctgagcag	300
tggaacccaa	gtgcttttaa	cacgtcagtt	gagctgcctc	tgagatctg	gagcagcaac	360
catttggtcc	ccagtgcaga	gaaagcgact	cttttcctcg	gcacactgga	taccattttc	420
ctcttctcct	atgctgtggg	cctattcatc	agtggcatcg	ttggggatcg	gttgaatttg	480
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ccattaat						908

<210> 743
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 743						
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tcttgcgctg	tgtcccatc	tctaatact	tatacttcta	ttggtacaga	caaatacttg	180
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<210> 744
 <211> 786
 <212> DNA
 <213> Homo sapiens

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aaaagg						786

<210> 745
 <211> 379
 <212> DNA
 <213> Homo sapiens

<400> 745						
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ccaccatcga	ctgcaggctc	agccagagtg	tcctctacca	cgccaacaat	aaaaactact	180

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cccgggaaac	cggtgtgcct	gaccgattca	ctggcagcgg	gtctgggaca	gattattcgc	300
tcaccataag	cagcctgcag	gctgaagatg	tgccactta	ttactgtcaa	caatattatg	360
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<210> 746

<211> 440

<212> DNA

<213> Homo sapiens

<400> 746

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aacttcgccca	actactggaa	aaggttcaga	acatgtccca	gtctattgaa	gtcttaaaact	360
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<210> 747

<211> 942

<212> DNA

<213> Homo sapiens

<400> 747

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gaagggtcaag	gctgcagtga	gccatgatca	tgccactgca	ctccagccta	ggtgacagag	720
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<210> 748

<211> 1050

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)... (1050)

<223> n = a,t,c or g

<400> 748

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<210> 749

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(390)

<223> n = a,t,c or g

<400> 749

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cgggacccag	gctacggatg	aggctctata	tttctgtcag	gcgtgggaca	cgaatggagc	360
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<210> 750

<211> 441

<212> DNA

<213> Homo sapiens

<400> 750

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aggaccatcc	tgctacagta	ttgctttctc	ttgattacat	gtttacttac	tgctcttgaa	240
gctgtgccta	ttgacataga	caagacaaaa	gtacaaaata	ttcaccctgt	ggaaagtgcg	300

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cgacgcgtg ggtcgacccg g 441

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<210> 751
<211> 449
<212> DNA
<213> Homo sapiens

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<400> 751
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<210> 752
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 752
tttcgtggcg aggcggcggt ggtggctgag tccgtggtgg cagaggcgaa ggcgacagct 60
ctaggggttg gcaccggccc cgagaggagg atgcgggtcc ggatagggtc gacgctgctg 120
ctgtgtgogg tgctgctgag cttggcctcg gcgtcctcgg atgaagaagg cagccaggat 180
gaatccttag attccaagac tactttgaca tcagatgagt cagtaaagga ccatactact 240
gcaggcagag tagttgctgg tcaaataatt cttgattcag aagaatctga attagaatcc 300
tctattcaag aagaggaaga cagcctcaag agccaagagg gggaaagtgt cacagaagat 360
atcagctttc tagagtctcc aaatccagaa aacaaggact atgaagagcc aaagaaagta 420
cggaaaccag gtagtctgga cattttcctt gctttttgat ttatttaggg gacaactgaa 480
aattttaagc taatgaataa agaggctgaa gaagaaaaaa aaaa 524

```

```

<210> 753
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = a,t,c or g

```

```

<400> 753
nttganncac tgagacatta gtccangcgg nggaattcga tggcgctggc ggctttgatg 60
atcgccctcg gcagcctcgg cctccacacc tggcaggccc aggctgttcc caccatcctg 120
cccctggggc tggctccaga cacctttgac gatacctatg tgggttgtgc agaggagatg 180
gaggagaagg cagccccctt gctaaaggag gaaatggccc accatgccct gctgcgggaa 240

```

tcctggggagg	cagcccagga	gacctgggag	gacaagcgtc	gagggcttac	cttgccccct	300
ggcttcaaag	cccagaatgg	aatagccatt	atggtctaca	ccaactcatc	gaacaccttg	360
tactgggagt	tgaatcangc	cgtgcggacg	ggcggaggct	cccgggagct	ctacatgagg	420
cactttccct	tcaaggccct	gcatttctac	ctgatccggg	ccctgcagct	gctg	474

<210> 754

<211> 1222

<212> DNA

<213> Homo sapiens

<400> 754

cagatcctca	tctccctggg	tagtgaggct	catcacagac	aagcaaccaa	ctgctgggct	60
gccgggtgcc	cccatgttgg	aacctgagtt	ggagattatc	tcctaagcag	atacctgctt	120
ccaaactggg	gatgtagggc	ttggaaacta	aaaaatgcca	ggctctgagg	agaggaaaaga	180
acaagtccag	caatacacag	agctctgtgt	attcagaggg	aagttggcag	ggttgtgttc	240
gggcagagaa	actccgagtg	gtacaaaagg	gacgtgccca	gagtgagaaa	atcatgctaa	300
ttgtctgcac	tagagctgga	gaacgccacc	caaaatgaag	agagaaaagg	gagccctgtc	360
cagagcctcc	agggccctgc	gccttgctcc	ttttgtctac	cttcttctga	tccagacaga	420
ccccctggag	ggggtgaaca	tcaccagccc	cgtgcgcctg	atccatggca	ccgtggggaa	480
gtcggctctg	ctttctgtgc	agtacagcag	taccagcagc	gacaggcctg	tagtgaagtg	540
gcagctgaag	cgggacaagc	cagtgaaccgt	gggtgcagtcc	attggcacag	aggtcatcgg	600
cacctgcggg	cctgactatc	gggaccgtat	ccgactcttt	gaaaatggct	ccctgcttct	660
cagcgacctg	cagctggccg	atgagggcac	ctatgaggtc	gagatctcca	tcaccgacga	720
caccttcact	ggggagaaga	ccatcaacct	tactgtagat	gtgcccatct	cgaggccaca	780
ggtgttgggg	gcttcaacca	ctgtgctgga	gctcagcgag	gccttcacct	tgaactgctc	840
acatgagaat	ggcaccaagc	ccagctacac	ctggctgaag	gatggcaagc	ccctcctcaa	900
tgactcgaga	atgctcctgt	cccccgacca	aaaggtgctc	accatcaccc	gcgtgctcat	960
ggaggatgac	gacctgtaca	gctgcgtggt	ggaaaacccc	atcaaccagg	gccggaccct	1020
gccttgtaag	atcaccgaat	acagaaaaag	ctccctttca	tcaatttggc	tccaggaggc	1080
attttcctcc	ttgggacctt	ggtgaagacc	tggccaacaa	gggaaaaccc	cgtctttatt	1140
aaaaatacaa	aaaatgcccc	cgctttgggt	gtaagggcct	gttttccgcg	gcccttcggg	1200
aggttttgaa	cagtaaatct	cc				1222

<210> 755

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = a,t,c or g

<400> 755

tttcgtgcac	ggtgtgcacg	ctggactgga	cccccatgc	aaccccgccg	cctgcgcctt	60
aaccaggact	gctccgcgcg	cccctgagcc	tggggctccg	gcccggacct	gcagcctccc	120
aggtggctgg	gaagaactct	ccaacaataa	atacatttga	taagaaagat	ggcttttaaa	180
gtgctactag	aacaagagaa	aacgtttttc	actcttttag	tattactagg	ctatttgtca	240
tgtaaagtga	cttgtgaatc	aggagactgt	agacagcaag	aattcaggga	tcggtctgga	300
aactgtgttc	cctgcaacca	gtgtgggcca	ggcatggagt	tgtctaagga	atgtggcttc	360
ggctatgggg	aggatgcaca	gtgtgtgacg	tgccggctgc	acagggtcaa	ggaggactgg	420
ggcttccaga	aatgcaagoc	ctgtctggac	tgccgagtgg	tgaaccgctt	tcagaaggca	480
aattgttcag	ccaccagtga	tgccatctgc	ggggactgct	tgccaggatt	ttatagggaag	540

```

acgaaacttg tcggccttca agacatggag tgggtgtnng cccttgttgg gagaaccccc 600
ttccttccct ccctttacgg aaaccgggca cttggttgcc agccaagggt ccaaaccctc 660
ggggaaa 667

```

```

<210> 756
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(411)
<223> n = a,t,c or g

```

```

<400> 756
atcctcctca gnggattttt ccttccttag taaagctngg tccatctgac actcagcctg 60
acccttcttc ctccctcttg aaggcgcaag tactctcccc gacctcgta aaactcaccg 120
aaatccctga agaaacttaa atgtcctgct cctgtccgcc ctgcttcttc accctcttcc 180
tccactctat ttgccaagac atctcctggt ttcattccca aactcccacc ttagattctc 240
tcttaaaactg gatagatgat ctcatctttt acggcactct gtataacttc ttcccagaag 300
agacgcctct gtttaccttc ctactcactc tatatctatc cctcctgctc ctttggtctac 360
ctggcatggc cgcactccca cttgcagtaa tgcctaatta cctctacaaa a 411

```

```

<210> 757
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<400> 757
tttcagccaa acttcgggcg gctgaggcgg cggccgagga gcggcggaact ccgggcgcgg 60
ggagtcgagg catttgccgc tgggcttcgg agcgtagcgc cagggcctga gcctttgaag 120
caggaggagg ggaggagaga gtggggctct tctatcggaa cccctctccc atgtggatcc 180
gcccgaagcg gaggtcgcgg aggaggttat cgaaaatatg cccgccctgc gcccgccttt 240
gctgtggggc ctgctgagcc tatggctgtg ctgcgcgacc cccgcgcctg cattgcaatg 300
tctgaaggc tatgaacctt cccactaga ccgaaagtgc gctccctacc ccaatgtcag 360
acgatcctgc ccattgcccag aaggtttt
388

```

```

<210> 758
<211> 843
<212> DNA
<213> Homo sapiens

```

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<400> 758
agcctgacca gttgttccca ggatccattg ttctccctcc ataaacaata aacagcactc 60
aggggaggga gggccaaca ccgggtgagg tgggcgccca gctgccgtcc tctgtgccac 120
atcagtaaac agcaacacaa caatcaactg ggcctttttg atgaagacaa aaccatagag 180
gaaaaccatt agaagaggta ataaaggccc ttcttataca gttaatagag agcctcctgg 240
atggaacaag accagctggt gctactgaaa atttacttct gttttcaagt tcaaatagag 300
actaaaacat tatcttcacg ggaattgatt ttacgtcttc caaacacata tgccacctta 360
attgtgattt gtgtgatagt tcagctgctg aaagctttcg tttatctcta cctgggttaa 420

```

caactttaaa	taataacaag	tcaatatatc	tgtttattga	ccagggttct	tctcatcccc	480
agagcacact	gttgaagaag	aaggtaacta	accctttgtt	tccctagccc	tgccacatat	540
ctcatttttc	acattctcaa	tggggagata	taattgttta	aaaaatggaa	tgaagccggg	600
tggcatggct	tacacttgta	attccagcta	tttgggaggc	taaggcagga	ggattgctcg	660
gggcccggag	ttcaagacca	gtctaggcaa	catagtgaga	ccccatctct	acaaaaaata	720
aaaactaaca	ccccgggttc	ctgactactc	aaaaggggtga	ggcagaggat	cacttgagcc	780
cagaagcaga	agctgggtga	gctagactgg	gcacgcactc	ctcatggtgc	agaagaaacc	840
tgc						843

<210> 759

<211> 647

<212> DNA

<213> Homo sapiens

<400> 759

gaattcccgg	gtcgacgatt	tctgtcggag	ggcagaggag	agcagaggag	cacacagatg	60
aagcagggtg	ccacgcgtcc	ggcgtcccat	ccgtccgtcc	ctcctggggc	cgccgctgac	120
catgcccagc	ggctgcccgt	gcctgcatct	cgtgtgcctg	ttgtgcattc	tgggggctcc	180
cgttcagcct	gtccgagccg	atgactgcag	ctcccactgt	gacctggccc	acggctgctg	240
tgcacctgac	ggctcctgca	gggtgtgacc	gggctgggag	gggctgcact	gtgagcgtcg	300
tgtgaggatg	cctggctgcc	agcacggtac	ctgccaccag	ccatggcagt	gcatctgcca	360
cagtggctgg	gcaggcaagt	tctgtgacaa	agatgaacat	atctgtacca	cgagtcctcc	420
ctgccagaat	ggaggccagt	gcatgtatga	cgggggcggg	gagtaccatt	gtgtgtgctt	480
accaggcttc	catgggcgtg	actgcgagcg	caaggctgga	ccctgtgaac	aggcaggctc	540
cccatgccgc	aatggcgggc	agtgccagga	cgaccagggc	tttgctctca	acttcacgtg	600
ccgctgcttg	gtgggctttg	tgggtgcccg	ctgtgacgtg	taagggtg		647

<210> 760

<211> 796

<212> DNA

<213> Homo sapiens

<400> 760

atccctgtgg	tgtaattccc	cagctactcg	ggagactgag	gcagaagaat	tgtttgaacc	60
cgggaagcgg	agattgcagt	gagctgaggt	cgcaccattg	cactccagcc	tgggtgacag	120
ggagaggggac	tctgtctcaa	aaaaaaaaactg	aggtcaggga	gggtgagatg	acgggtgagag	180
ctcggaacttg	aacgcagggtc	ccaccacagaa	cagcagccct	aactctgagc	aaggctctgtg	240
ctgttcagta	gctctattga	gatgtgattt	ccacactgtg	taattcattc	acttacggtg	300
tacagtccag	tgggtcttag	catgctcggt	gttgacagtc	acatcgtctt	cacccccaaa	360
aggaaacccc	gtgcccatga	gcagtgcgtt	tgtctgcccc	tcgtccccag	ccccaggcaa	420
ccacaaatcc	atgctctgtc	tctgttagatt	tgcctgttcc	agacgtttca	cagcaatggg	480
ccttttctgc	ctggcttctt	taacgttgca	tcacatcttc	aaggctccatc	ccagctgcag	540
cgtgtcagtg	cctcctgggt	tttactgtct	gagtgtgccc	cgttgcatgg	acagaccacg	600
ttgtgtctac	ctgtttgccc	taatggggccc	ctgcttgggg	ctttccacct	ttgggaggct	660
gtgaattgtg	ctccagccac	acttttgacc	ccgcgccggg	ttccagaaga	tgaccaggat	720
tggtcacttt	cttcaccac	ccaaggactt	ttggtggggc	tgccgcaatc	cgccccatcc	780
ttggtggctt	gaggcc					796

<210> 761

<211> 721

<212> DNA

<213> Homo sapiens

<400> 761

```

gattacgcct agcttggcac gagggatcac ttgactccat cccctcccca ccaggactac      60
atctcccagc aggctgtgct ctgacagctc ttggatttaa ataggattct gggctctgct      120
cagagtcagg ctgctgtctc gcaccagga cggagaggag cagagaagca gcagaagcag      180
ccaagagctg gagccagacc aggaacctga gccagagctg gggttgaagc tggagcagca      240
gcaaaagcaa cagcagctac agaagttgga acgatgctgg tcaccttggg actgctcacc      300
tccttcttct cgttcctgta tatggtagct ccatccatca ggaagttctt tgctgggtgga      360
gtgtgtagaa caaatgtgca gcttcctggc aaggtagtgg tgatcactgg cgccaacacg      420
ggcattggca aggagacggc cagagagctc gctagccgag gagcccagat ctatattgcc      480
tgcagagatg tactgaaggg ggagtctgct gccagtgaat tccgagtggg tacaagaagc      540
tcccaggtgc tgggtgcgaa attggacctc tccgacacca aatctatccg agcctttgct      600
gagggcttct tggcagagga aaagcagctc catattctga tcaacaatgc gggagtaatg      660
atgtgtccat attccaagac agctgatggc tttgaaacct acctgggagt caaccacctg      720
g

```

<210> 762

<211> 716

<212> DNA

<213> Homo sapiens

<400> 762

```

tttttttct aatcagaata cttttcttct ttaatctttg ggagtacata ccaccatact      60
gggggcaatg gcggggagag cctttgtgga ccaggaagc tgggggggga gtccatgct      120
agctctataa gccaggctct ggggcagcat ccaagacgct ctgtattaga tactgaccag      180
tctcatgtgc cactgggtgag gaggaagaca acgtgctttt cccaaagggc gatgatctcc      240
ccagatgatg acccttctca ggaggcagga gcgctttccc ggaataacct tttggctcct      300
tattcagctg ctgcagcaga tactcattag ttaccaccag ggatctctga ctttcatgga      360
gaatggcaac tgtcttctcc agctttttca gctgggcaag ctctgtgttc aggcaagcca      420
cctgcatggt cagctgttgg tttttgtgca gaagatcatc ataagtatgt gactgttgcc      480
cactcacaaat tgagatggca gcaccttctt ccaactgttg aattttttct gacaaaatga      540
ggttttctct cagcactctg accagttttt gcttcaaact ttccgagaaa cttcttgttg      600
aggaggaggg ggccggagcc attccagtgc ttatccacaa gctccaggag ctgtctgagg      660
acagtggcca catggggggg tctggcagag atggggggac tgtggtttcc agccaa      716

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<210> 763

<211> 642

<212> DNA

<213> Homo sapiens

<400> 763

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tttcgtcgga agcgagaccg tccatccaga ggaaggcaag tttttggctc gggcggctga      60
gaagaccgag cggggctgga gacaggtagc agtacggggg cggggcttca tgccgatgt      120
gatagtctgc agtcgtttcg gttggcagcc tggcgggtgg gagatgcggc ggccacctgc      180
tgcaaagaac cgaagggaag gttagaagta cgaaggcagt ttggagctgg ggctaagcag      240
ctgtcgcacg gtcagatcat gggctccacc aagcactggg gcgaatggct cctgaacttg      300
aagggtggctc cagccggcgt ctttgggtgtg gcctttctag ccagagtgc cctgggtttc      360
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ttcaccgacg ccgcgcgctt cgtcacggag gggcgctcgc cttacctgag agccacgtac      480
cgttacaccc cgtgctgtgg ttggctctc actcccaaca tctacctcag cgagctcttt      540
ggaaagtttc tcttcatcag ctgcgacctc ctcaccgctt tcctcttata ccgctgtctg      600

```

ctgctgaagg ggctggggcg ccgccaggct tgtggctact gt

642

<210> 764
<211> 2280
<212> DNA
<213> Homo sapiens

<400> 764
aggggattcg gcagctcctt ttcagctcgc tcggagcacc cagcctcgc tgccccgctt 60
gctgcctca acctgggcat gcgccccca ccttccggc ccccagAAC ccgcgccatc 120
ccccggagcc tccccagagc tggccgcgca ggatgggCG cctcaggccc acgctgctgc 180
cgcttcgct ccgctgctg ctgctgctaa tgctaggaat gggatgctgg gcccgggagg 240
tgctggctcc cgaggggccc ttgtaccgCG tggtggcac agctgtctcc atctcctgca 300
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aggccccaga tactgactg ggcattgtca gtaccaagga taccagttc tcctatgctg 420
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ctggagctcc ctatgctgag cgattggctg caggggagct tCgtctgggc aaggaaggga 900
ccgatcggtA ccgcatggta gtagggggtg cccaggcagg ggacgcaggc acctaccact 960
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cgggggcacc tgggcccggc cgcctggtag cccagctgga cacagagggt gtgggcagcc 1260
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tccggcctgg aggaggccct gtcagcgtag agctggtggg gcccgaagc catcggctga 1740
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tgCagcatgc cgactacagc tggtagcagg cgggcagtgc ccgctcaggg cctgttacag 1860
tctaccccta catgcatgcc ctggacaccc tatttgtgcc tctgctgggt ggtacagggg 1920
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ttcgaAACg gtgatccctt actccccagg tcttgagggt gtcgactgtc ttccggccca 2040
gctccaagcc ctctctgggt tgcctggaca ccctctccct ctgtccactc ttcctttaat 2100
ttatttgacc tcccactacc cagaatggga gacgtgcctc cccttcccca ctcttccct 2160
cccaagcccc tccctctggc cttctgttct tgatctotta gggatcctat agggaggcca 2220
tttctgtcc tgaattagt ttttctaaaa tgtgaataaa cttgttttat aaaaaaaaaa 2280

<210> 765
<211> 555
<212> DNA
<213> Homo sapiens

<400> 765

tttcgtccgg	gaccagcgcc	tccccgcttc	gcgctgccct	cgccctcgcc	ccgggcccgg	60
gtggatgagc	cgcgcgcccc	ggggacatgg	aagcgctgac	gctgtggctt	ctccccctgga	120
tatgccagt	cgtgtcggtg	cgggccgact	ccatcatcca	catcggtgcc	atcttcgagg	180
agaacgcggc	caaggacgac	aggtgtttcc	agttggcggt	atccgacctg	agcctcaacg	240
atgacatcct	gcagagcgag	aagatcacct	actccatcaa	ggtcacgcag	gccacaacc	300
cattccaggc	tgtgcaggaa	gctgtgacc	tcatgaccca	ggggattttg	gccttggtca	360
cgtccactgg	ctgtgcatct	gccaatgccc	tgcagtccct	cacggatgcc	atgcacatcc	420
cacacctctt	tgtccagcgc	aaccggggag	ggtcgccacg	caccgcatgc	cacctgaacc	480
ccagccccga	tggtagggcc	tacacactgg	cttcgagacc	accggtccgc	ctcaatgatg	540
tcattgctcag	gctgg					555

<210> 766

<211> 2744

<212> DNA

<213> Homo sapiens

<400> 766

gcggcgccgt	cggtggggcc	cggattcccc	tgcggcttcg	atccctttcc	actgggatgc	60
agaaagcctc	agtgttgctc	ttcctggcct	gggtctgctt	cctcttctac	gctggcattg	120
ccctcttcac	cagtggcttc	ctgctcacc	gtttggagct	caccaaccat	agcagctgcc	180
aagagcccc	aggccctggg	tccttgccat	gggggagcca	agggaaacct	ggggcctgct	240
ggatggcttc	ccgattttcg	cgggttgtgt	tggtagctgat	agatgctctg	cgatttgact	300
tcgcccagcc	ccagcattca	cacgtgccta	gagagcctcc	tgtctcccta	cccttctgg	360
gcaaaactaag	ctccttgtag	aggatcctgg	agattcagcc	ccaccatgcc	cggctctacc	420
gatctcaggt	tgacctcct	accaccacca	tgcagcgcc	caaggccctc	accactggct	480
caactgctac	ctttattgat	gctggtagta	acttcgccag	ccacgccata	gtggaagaca	540
atctcattaa	gcagctcacc	agtgcaggaa	ggcgtgtagt	cttcatggga	gatgatacct	600
ggaaagacct	tttccttggt	gctttctcca	aagctttctt	cttcccatcc	ttcaatgtca	660
gagacctaga	cacagtggac	aatggcatcc	tggaaacct	ctacccacc	atggacagt	720
gtgaatggga	cgtgctgatt	gctcacttcc	tgggtgtgga	ccactgtggc	cacaagcatg	780
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<210> 767

<211> 920

<212> DNA

<213> Homo sapiens

<400> 767

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<210> 768

<211> 580

<212> DNA

<213> Homo sapiens

<400> 768

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<211> 531

<212> DNA

<213> Homo sapiens

<400> 769

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<210> 770

<211> 1072

<212> DNA

<213> Homo sapiens

<400> 770

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<210> 771

<211> 1271

<212> DNA

<213> Homo sapiens

<400> 771

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<210> 772

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 772

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<210> 773

<211> 980

<212> DNA

<213> Homo sapiens

<400> 773

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<210> 774

<211> 1224

<212> DNA

<213> Homo sapiens

<400> 774

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<210> 775

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 775

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<210> 776

<211> 708

<212> DNA

<213> Homo sapiens

<400> 776

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<210> 777

<211> 446

<212> DNA

<213> Homo sapiens

<400> 777

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ctgaagtaga	caccaccctg	ggtcgtgtgc	gaggccggca	ggtgggcgtg	aagggcacag	180
accgccttgt	gaatgtcttt	ctgggcatte	catttgccca	gccgccactg	ggcctgacc	240
ggttctcagc	cccacacca	gcacagccct	gggaggtgtg	gcgggatgcc	agcactgcgc	300
ccccaatgtg	cctacaagac	gtggagagca	tgaacagcag	cagatttgct	ctcaacggaa	360
aacagcagat	cttctccgtt	tcagaggact	gcctggtcct	caacgtctat	agcccagctg	420
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<210> 778

<211> 416

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(416)
 <223> n = a,t,c or g

<400> 778
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 tctatcacc cggagcctgc ccagccgagc gaaggggaca acgtcacgct ggtcgtccat 180
 gggctttcgg gggaactgct cgcctacagc tggatgcgg ggccacact cagcgtgtca 240
 tacctggtgg ccagctacat cgtgagcaca ggcgatgaga ctccctggccc ggccacacg 300
 gngcgggagg ctgtgcgccc cgatggcagc ctggacatcc agggcatcct gcccggcac 360
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<210> 779
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 779
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 gagttggttg gctaattggag tttgtctata tgagtacttg tttttcagat gtggctttct 120
 aattttgcaa ccttgttctt ttgatgctag tttaacggat gaagagtccc ggaaaaattg 180
 ggaagaattt ggaaatccag atgggcctca aggtgtggta aatgatgatt ttaaaatatt 240
 ggcgatatgg tatatattat aaaaatgtta accagattaa aggaataata ttattttctt 300
 actaaactta tactcacatg gagtttaaca tagataaatt gagctctcat taatttttgc 360
 tttatttttc tttctaaaga cg 382

<210> 780
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 780
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 tcctgatgga ggagtgcata taattggagg ggaaattggg gaggctttta ttatttttgc 180
 aacagatgaa gatgcaagac gtgccataag tcgttcagga gggtttatca aggattcatc 240
 tgtagagctc tttcttagta gcaaggcaga aatgcagaag actatagaaa tgaaaagaac 300
 tgatcgtgta ggaagagggc gtccaggatc tgggacatca ggggttgaca gcctgtctaa 360
 ttttattgag tctgttaagg aagaagcaag taattctgga tatggctctt caattaatca 420
 agatgctggg tttcatg 437

<210> 781
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 781

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ggccagatgg	gcagcaccat	ggagccccct	gggggtgcgt	acctgcacct	gggcgccgtg	120
acatcccctg	tgggcacagc	ccgcgtgctg	cagctggcct	ttggctgcac	taccttcagc	180
ctggtggctc	accgggggtg	ctttgcgggc	gtccagggca	ccttctgcat	ggccgcctgg	240
ggcttctgct	tcgcgctctc	tgcgctgggt	gtggcctgtg	agttcacacg	gctccacggc	300
tgccctgggc	tctcctgggg	caacttcacc	gccgccttcg	ccatgctggc	caccctgcta	360
tgcgcgacgg	ctgcggctct	gtatccgctg	tactttgccc	ggcgggagtg	tccccccgag	420
cccgcgggct	gtgctgcccag	ggacttccgc	ctggcagcca	gtgtcttcgc	cgggct	476

<210> 782

<211> 753

<212> DNA

<213> Homo sapiens

<400> 782

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ataattttta	tactcttctg	catttgctaa	atttcctctc	attagcaggt	tataccttta	180
tgatcagaaa	aaaaattaaa	cactgcttct	aaaaaatact	catctccagc	acttgagat	240
cacctacctc	tacattctac	ccaactgagc	ccaatttagt	cttctcaggg	ctttgcccac	300
gaacagttca	ggaatgcatg	cctctgaagg	ccttcctgct	cttccccttc	tggccttggt	360
atctcattct	cattcctgcc	ctcccctacc	tctccaaccc	catcacttgc	cagccatcct	420
gttcttcctt	gttggtcatc	agttaatgaa	gtgtattagg	tgacctgagt	acttgtcagt	480
acttcccaga	ggcaagaaca	ttcctcgcat	atcaaggtag	ctttaagagc	caagaagctc	540
agatttggag	gcgggagagc	tgtactgcat	cccctcaa	gttagcagtg	ccaagaaatg	600
agacgctagt	ctagggggca	ccacaagcag	aaaggggctg	tttcaaggag	tcgtccgccc	660
atgggagctc	cctctcttat	tattcacctt	gctccaagga	tatcttttct	tttacgtatg	720
aaaattttgt	aattgttcaa	ctataacacc	atg			753

<210> 783

<211> 769

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(769)

<223> n = a,t,c or g

<400> 783

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gataagtcgg	gcttttggtg	agacagactt	tcccaaccct	ctgccccgcc	ggtgcccattg	180
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aaagctgtac	ttctcctoga	tcctccatgg	tccacagcct	tcaaaggaga	aaaagtggct	300
ctcatatgca	gcagcatatc	acattcccta	gccaggggag	acacatattg	gtatcacgat	360
gagaagttgt	tgaaaataaa	acatgacaag	atccaaatta	cagagcctgg	aaattaccaa	420
tgtaagaccc	gaggatcctc	cctcagtgat	gccgtgcatg	tggaaattttc	acctgactgg	480
ctgatcctgc	aggctttaca	tcctgttttt	gaaggagaca	atgtcattct	gagatgtcag	540
gggaaagaca	acaaaaacac	tcatacacaag	gtttactaca	aggatggaaa	acagntttct	600
aatagttata	atttagagaa	gaatacagtg	gattcagctc	cccgggataa	tagcccatat	660
tattgtgctg	ggtaaaagag	agtttacata	cttgggattg	gagaacttta	aaacccccaa	720

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769

<210> 784

<211> 979

<212> DNA

<213> Homo sapiens

<400> 784

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ccgtggcagt	gaccagaagg	ggccggaagg	gggtggccgc	cgcccgggcc	ccgccctggg	180
gccgcctccc	cgcgggttcc	gttggctgtg	gcggcagctg	acgcttgttg	cggcggtggc	240
ttcggggtgg	gcgtaagatg	gcgacagcag	cgcagggacc	cctaagcttg	ctgtggggct	300
ggctgtggag	cgagcgcttc	tggctacccg	agaacgtgag	ctgggctgat	ctggaggggc	360
cggccgacgg	ctacggttac	ccccgcggcc	ggcacatcct	ctcgggtgtc	ccgctggcgg	420
cgggcatcct	cttcgtgagg	ctgctcttcg	agcgatttat	tgccaaaacc	tgtgcactcc	480
gtattggcat	cgaggacagt	ggtccttata	aggcccaacc	caatgccatc	cttgaagagg	540
tgttcataac	tattaccaag	tatcctgata	agaaaaggct	ggagggcctg	tcaaagcagc	600
tggattggaa	tgtccgaaaa	atccaatgct	ggtttcgcca	tcggagggaat	caggacaagc	660
ccccaacgct	tactaaatcc	tgtgaaagca	tgtaagtacg	caaggaggga	gggaggggaat	720
aaggaagacg	gtgggataca	actggactga	agtttctgtt	ttgaacatca	cttctgttgt	780
taggacaaca	gttaatggat	atagagaact	aactcagcct	attataggta	ggaaagaagg	840
gaactggaac	actgattccc	ttaagtctct	tgggcatgtt	gccactaagc	taggtgtggt	900
tctatcttgt	tcccttttcc	taaataagatt	gggagtaaat	ccttataact	gtacttatgt	960
aagtagatgt	actaacaca					979

<210> 785

<211> 550

<212> DNA

<213> Homo sapiens

<400> 785

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cggcgccgtg	gcggaggagc	aggagcagga	gggggatgga	gaggagaagg	ctcctgggtg	120
gcattggcgt	cctgctcctc	caggcgctgc	ccagcccctt	gtcagccagg	gctgaacccc	180
cgcaggataa	ggaagcctgt	gtgggtacca	acaatcaaag	ctacatctgt	gacacaggac	240
actgctgtgg	acagtctcag	tgctgcaact	actactatga	actctggtgg	ttctggctgg	300
tgtggaccat	catcatcatc	ctgagctgct	gctgtgtttg	ccaccaccgc	cgagccaagc	360
accgccttca	ggcccagcag	cggcaacatg	aatcaacct	gacgccttac	cgagaagccc	420
acaattactc	agcgtgcca	ttttatttca	ggtttttgcc	aaactattta	ctacctcctt	480
atgaggaagt	ggtgaaccga	cctccaactc	ctccccacc	atacagtgcc	ttccagctac	540
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<210> 786

<211> 932

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (932)

<223> n = a,t,c or g

<400> 786

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ggtcttcgcc  ctcccgccca  aggaaggccg  ctgcttggtt  gtcactcctg  tcatggcggt      180
gtactgggtg  acggaggccc  tgccgctctc  agtgacggcg  ctgctgccca  tcgtcctctt      240
ccccttcatt  ggcatcttgc  cctccaacaa  ggtctgcccc  cagtacttcc  tcgacaccaa      300
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gcgaatcgcc  ctcaagatcc  tgatgcttgt  tggagtccag  ccggccaggc  tcatcctggg      420
gatgatgggt  accacctcgt  tcttgctccat  gtggctgagc  aacaccgcct  ccactgccat      480
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ggacccccag  ccaggagagt  gaagagaaca  cagggaatag  aacccaata  cctntcctct      600
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cgggtggaat  gtgaatatga  tggcacctgg  gacccaaaga  caggagccac  atcttgagag      780
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ttatccatga  aacctaggtt  tttgtgtgct  agttctagtt  tttaaaatat  gaattaaatt      900
aaatacgtat  ctgttaaaac  ttaaaaaaaa  aa

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<210> 787

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(514)

<223> n = a,t,c or g

<400> 787

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ctgttcccca  tcctcccgag  ccttcctgct  gtacctgtgg  ggagctgac  tcctcagtc  180
ccctgctttt  ccccggtctg  ccacaccac  cccaccacca  tgcacccct  tcctggctac  240
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gtaacttgga  ccacatgggt  cccaacccg  tctgaagtgc  aattcgggt  gcagccgtcg  420
gggcccctgc  ccctcccgcg  ccagggcacc  ttctgcccc  ttgtggacgg  nggcattctc  480
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<210> 788

<211> 469

<212> DNA

<213> Homo sapiens

<400> 788

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cccgtaatc  tcgggtcgac  gatttcgtgg  cgcggaggag  ctctgtccgg  aatcacatag      60
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gctctagaga  ttatttctct  ttattcagaa  gcatacagtt  gtttgctgat  tgcaagaaga      180
tgtttctgtg  gctgtttctg  attttgcag  ccctgatttc  ttcgacaaat  gcagattctg      240
acatatcggt  ggaaatttgc  aatgtgtggt  cctgcgtgtc  agttgagaat  gtgctctatg      300

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tcaactgtga	gaagggtttca	gtctacagac	caaatacagct	gaaaccacct	tggtctaatt	360
tttatcacct	caattttccaa	aataattttt	taaataattct	gtatccaaat	acattcttga	420
atttttcaca	tgcagtctcc	ctgcatctgg	ggaataataa	actgcagat		469

<210> 789

<211> 525

<212> DNA

<213> Homo sapiens

<400> 789						
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cccagtgaga	gcggctttcc	aggacgggtg	gatgtgctgc	gcagcgaaga	ggcaggagggc	180
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gccaccagct	atcccaataa	ggtactatgc	cataatgggt	accatgttct	tcaccgtgag	480
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<210> 790

<211> 377

<212> DNA

<213> Homo sapiens

<400> 790						
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agtgtgggtc	ctaataccaa	aactgacgcc	cttatacaaa	ggagaaacct	ggacacagac	180
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ggaagattgc	cagttaatga	ccaaaagaag	ccaggagaca	ggcctgcaac	ggattctgcc	300
tgaaggctcc	cagaaggaac	caaccctgac	aacaccttga	tcttggactt	ccaacctcca	360
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<210> 791

<211> 637

<212> DNA

<213> Homo sapiens

<400> 791						
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aagctgattt	tactactagg	aatagtcttt	tttgaacgag	gtaaatctgc	aactctttcg	180
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aacattttca	gtcgcattct	tggaggaagc	caagtggaga	agggttccta	tccctggcag	300
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gtgatcacgg	cggctcactg	cattgcaaac	agaaacattg	tgtctacttt	gaatgttact	420
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gtcatcatac	atccacattt	ctccaccaag	aaaccaatgg	actatgatat	tgcccttttg	540
aagatggctg	gagccttcca	atttggccac	tttgtggggc	ccatatgtct	tccagagctg	600

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637

<210> 792

<211> 881

<212> DNA

<213> Homo sapiens

<400> 792

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cagttaagtc	tatggcagag	tcagattcctt	ttatgtgtct	aactgttgcg	aagtatagac	180
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tgaagatctc	cagctagact	tcacagagat	gccaaagtgt	ggagatctta	ttcctagatt	780
tggactgccc	ttacggatcg	gctcagataa	tgggctggcg	tttgtggctg	acttgggtaca	840
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<210> 793

<211> 622

<212> DNA

<213> Homo sapiens

<400> 793

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gccaccatcc	tcttctgggc	agcggcagca	tgggctaaat	caggcaagcc	ttcgggagag	180
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ctacctggag	ggggctggga	caatctgcgg	aatgtggaca	tgggacgagt	tatggaattg	300
acttactcca	actgcaggac	aacagaggat	ggacagtata	tcattcctga	tgaaatcttc	360
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aattaccaga	gtagcacctc	ctactccatc	aacacagaac	tctctctttt	ttccaaagtc	480
aatggcaagt	tttccactga	gttccagagg	atgaagaccc	tccaagtga	ggaccaagct	540
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<210> 794

<211> 1177

<212> DNA

<213> Homo sapiens

<400> 794

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aattgtagga	ctccctctag	gagttgggca	catgtcgttg	gtgggagccc	tgtccctgcc	180
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gctctacaag	gcaggaggag	tttaatatga	cttctcatta	gcactgaaat	ttgtttccaa	600
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<210> 795

<211> 599

<212> DNA

<213> Homo sapiens

<400> 795

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agtgtacaag	atcaacaaaa	tggccttctg	ggtcggagag	acagtgtttc	tcctctggaa	480
cagcctcaat	gacccctctc	tcggttggct	cagtgaaccg	cagttcctca	gctcccagcc	540
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<210> 796

<211> 709

<212> DNA

<213> Homo sapiens

<400> 796

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cacgagatca	aaagatcgag	accatccttg	ctaacacggg	gaaaccccat	ctctactaaa	540
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cgagcaagaa	aatgacgtga	acccgggaag	tggagcttgc	agtgagccct	aatcgcacca	660

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<210> 797
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 797
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 ttgccatgaa gaacatgacc atggccctga agcgcttcac agacagcatc gtggaatgac 180
 agaattggag ccaagcaaatt ttcaaagca agctgctgaa aatgaaaaaa aatactatat 240
 tgaaaaactt tttgagcgtt atgggtgaaaa tggaagatta tocttttttg gtttggagaa 300
 acttttaaca aacttgggcc ttggagagag aaaagtagtt gagattaatc atgaggatct 360
 tggccacgat catgtttctc atttaaata 389

<210> 798
 <211> 480
 <212> DNA
 <213> Homo sapiens

<400> 798
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<210> 799
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 799
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<210> 800
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 800
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 ctggaggggt taccactcca ccttgcccac aggggtggacg tgatccctct gtccctctta 360
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<210> 801
 <211> 423
 <212> DNA
 <213> Homo sapiens

<400> 801
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 cgtgctggcc actgcccacc gccagctgca ggacatctgc cggctggagc gggcagtggt 180
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 agtctgggcc tatgagcagc gcccgccact ggggcctggg aactgttgt cctcctctc 360
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 cac 423

<210> 802
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 802
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 atgacagcat ggtttacaga atggcttgtg aatatttaag ccca 524

<210> 803
 <211> 475
 <212> DNA
 <213> Homo sapiens

<400> 803

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agcgcttccc	ctatgagaac	ttctgactga	aacactactg	gcctggctgg	gtgagcatgg	420
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<210> 804

<211> 404

<212> DNA

<213> Homo sapiens

<400> 804

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<210> 805

<211> 344

<212> DNA

<213> Homo sapiens

<400> 805

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<210> 806

<211> 1208

<212> DNA

<213> Homo sapiens

<400> 806

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aaaaattgaa	tgttacatac	tataatttct	gaccaaaaag	gattaaaact	agcaatcgat	240
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<210> 807
<211> 432
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(432)
<223> n = a,t,c or g

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acgtggcgat ccgagaggag gtggcgcatg ataagatcac ggccttcgag aagtgcacgc 180
cgtccctcat gtccaacgac gcctttgggtc tgggctctaa gtacttcgag ctgtatgagg 240
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ttccgaacgg gt 432

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<210> 808
<211> 483
<212> DNA
<213> Homo sapiens

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<400> 808
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cag

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<210> 809
 <211> 768
 <212> DNA
 <213> Homo sapiens

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<210> 810
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 810
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<210> 811
 <211> 14139
 <212> DNA
 <213> Homo sapiens

<400> 811
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 agtgagagcg agcctcgga ccagaggaac ggcccaaca accaagcagc agccgccagg 720
 tctttatcac aggcctgctc tgggctgagc ggtgagatgg ggtctcttga aaagtgggca 780
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 aaaacggggt ccat 854

<210> 814
 <211> 605
 <212> DNA
 <213> Homo sapiens

<400> 814
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 aaaaagggtga tgtctggagc atgggtgtgg tcctgtatgt catgctctgt gccagcctac 360
 cttttgacga cacagacatc cccaagatgc tgtggcagca gcagaagggg gtgtccttc 420
 ccactcatct gagcatctcg gccgattgcc aggcctgct caagaggctc ctggaacccg 480
 atatgatcct ccggccttca attgaagaag ttagttggca tccatggcta gcaagcactt 540
 gataaaagca atggcaagtg ctctccaata aagtaggggg agaaagcaaa ccaaaaaaa 600
 aaaaa 605

<210> 815
 <211> 910

<212> DNA

<213> Homo sapiens

<400> 815

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gatttttgaaa	gacaaaacag	tctgaaaggg	catcttctta	ttccttttaa	aatgaaaaga	180
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ggatgcccc	tggggaagaa	tgccagagac	atcacaagat	tgccctggca	cctcccaact	660
tctgcccttc	tcttttaact	ctgttcacca	agcttgtaaa	taataataat	aataagctta	720
actacaagaa	gattgatgtc	tttgagttgc	actggttttg	ctcttgaaaa	gaggtgtgca	780
ggctgggtgt	ggtggctcac	ccctgtaata	ccagcacttt	tgggaggcca	aggcaggcag	840
atcatgatca	tggtcaggag	tttgagacca	gccggacca	catggggaaa	cctgtctact	900
accaaacc						910

<210> 816

<211> 1892

<212> DNA

<213> Homo sapiens

<400> 816

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gcctgtgtcc	tgctctacag	atgataggag	ggatggacag	tggagagaag	ctgagccttg	180
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tttccatcca	gctcccatg	tccactgaca	gccacacca	ggcttcaggt	ggaggtgagg	360
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agagctgtga	ccaagaatgg	gaacaggagg	ctgctaaggt	ctggagaagc	aggaatcatt	480
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ttgggatcca	tcttctgagg	gtgaagctcg	agtgagcggg	gcaggcagct	gtcaacaggg	1860
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<210> 817

<211> 687

<212> DNA

<213> Homo sapiens

<400> 817

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gtctgtgggc	cgcaaggccc	cagtggagcc	cttgggttcc	cgcagaaccg	actgggtctc	180
cagtagtctc	tgaggagccg	ctcgaccttc	tcccgaccct	ggatctgagg	caggagatgc	240
ctccccgcg	ggtgttcaag	agctttctga	gcctgtctct	ccaggggctg	agcgtgttgt	300
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acctgggtctc	tcctttggag	aatgaacctc	aggagatgct	gactctaagt	gagtaccacg	480
agcgcgcgcg	ctcccagggg	cagcagctgc	tgcaatttca	ggccgagctg	gataaactcc	540
acaaggaggc	gtcccttgtt	tgcggtgc	cctccctgag	agaggtgcc	agctccgccg	600
tctcaaggct	ggaaccacct	tctatcgcg	aacccttct	ctctcgtctc	cagctttatt	660
tatccgacct	ctcatcatat	ctcgctcc				687

<210> 818

<211> 372

<212> DNA

<213> Homo sapiens

<400> 818

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acagtcccca	atgtgtggag	aatttctctt	catcagcata	tatagctgtg	atatgtaaag	180
gagcatcaaa	ggtctcataa	gtttcatcgt	cgttaaaata	tacaaaaagg	gctgtcaatg	240
cttgagacat	cagaattaac	atacactctc	tcttcgtaac	agtcacagg	tgctacctat	300
taaccgtccc	cggttaatac	cttttatcca	tagccggcca	ccacctcata	cccatccctt	360
gtgccctgta	tt					372

<210> 819

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(445)

<223> n = a,t,c or g

<400> 819

gtcagcttcg	gaanttcggg	gnagactcac	cgcgacggga	cttggtgggt	tcttggtctc	60
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actgagttct agtttgaagc tgtttaccct cgcagctctc tgactggcac cctgcctgc 120
ctgcccggcc ctgcacaaca tgcagccctc cggcctcgag ggteccggca cgtttggctg 180
gtggcctctg ctgagctctgc tgctcctgct gctgctgctc cagcctgtaa cctgtgccta 240
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gccgggcacc tacgtccctc cgaccacact cagtagtccc agcacccaag gcctgcaaga 360
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ggttctaagg caggtttacc acaat 445

```

```

<210> 820
<211> 425
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> (1)...(425)
<223> n = a,t,c or g

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<400> 820
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tcagtctact ggtgccggga agactggcca aatcaggaaa tgaggaagat ctacaccact 180
gtgctgtttg ccaacatcta cctggctccc ctctccctca ttgtcatcat gtatggaagg 240
attggaattt cactcttcag ggctgcagtt cctcacacag gcaggaagaa ccaagagcag 300
tggcacgtgg tgtccaggaa gaagcagaag atcattaaga tgctcctgat tgtggccctg 360
ctttttatc tctcatggct gcccctgtgg actctaata tgctctcaga ctacgctaaa 420
ccgan 425

```

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<210> 821
<211> 706
<212> DNA
<213> Homo sapiens

```

```

<400> 821
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acttgacccc ctaaacctgc tctgtcccag tgtgccccct cgaaaatggg ctgggttctg 180
tatgtaactg ggcctctctc ctgcagagat cctctcagac tccgaggagg accgggtatc 240
ttctaatacc aacagctatg actacggtga tgagtaccgg ccgctgttct tctaccagga 300
gaccacggct cagatcctgg tccgggccct caatcccctg gattacatga agtggagaag 360
gaaatcagca tactggaaag ccctcaagggt gttcaagctg cctgtggagt tcctgctgct 420
cctcacagtc cccgtcgtgg acccgacaa ggatgaccag aactggaaac ggcccctcaa 480
ctgtctgcat ctggttatca gcccctgggt tgtggctcctg accctgcagt cggggaccta 540
tggtgtctat gagataggcg gcctcgttcc cgtctgggtc gtggtgggtga tcgcaggcac 600
agccttggct tcagtgcct tttttgccac atctgacagc cagcccccca ggcttccactg 660
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```

```

<210> 822
<211> 357
<212> DNA
<213> Homo sapiens

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<400> 822

cggacgcggg	ggcggacgct	gggccttgct	ccttcctcat	tgggatcatc	agtcagtga	60
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tgggcctggc	caacgttgct	gactcctata	aaatgctcat	ccttgtagca	ttcctttttt	180
tcgcctactg	acgcgctggg	cttgaggtcc	cttctgggaa	ctgccagcct	gtggccactg	240
ctcctgagcc	tcacagagct	acctgccctc	ctgcaaagt	gactgctgac	cttctgttcc	300
gaaagacccc	gctacctcta	cgtaatacat	aatttcgagg	gacctgccag	aattagt	357

<210> 823

<211> 402

<212> DNA

<213> Homo sapiens

<400> 823

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gatatgctcc	atgacaagtg	gtacaggggtg	gttcctctgtg	gcaagagaag	ttttgctgtc	120
acggagactt	tgcaaatggg	catcaaacac	ttctctgggc	tctttgtgct	gctgtgcatt	180
ggatttggtc	tgtccatttt	gaccaccatt	ggtaggcaca	tagtatacag	gctgctgcta	240
ccacgaatca	aaaacaaatc	caagctgcaa	tactggctcc	acaccagcca	gagattacac	300
agagcaataa	atacatcatt	tatagaggaa	aagcagcagc	atttcaagac	caaacgtgtg	360
gaaaagaggt	ctaattgtggg	accccgtcag	cttaccgtat	gg		402

<210> 824

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(348)

<223> n = a,t,c or g

<400> 824

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cctgtgtgga	tgtgatatac	agcagcatca	ccggttaact	acgttcgtat	gtttttgggtg	180
tcaattatat	gtgttactct	cttctttcct	attgtagctc	tcttcgatct	ttacgccact	240
ctcgtctact	gtgtgtacgc	gttttctact	gactctcttc	tgctgtctgt	gatgcttact	300
gcgcttcctc	gtagtctctt	cttttcgtcg	tcgttgattt	tatcatcg		348

<210> 825

<211> 347

<212> DNA

<213> Homo sapiens

<400> 825

ggcacgagcc	ggtgggtcta	cagcggaagg	gagggagcga	aggtaggagg	cagggcttgc	60
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tgctgtgggt	cctgctgctg	aatctgggtc	cccgggcggc	gggggccc	ggcctgacct	180
agactccgac	cgaaatgcag	cggtcatgt	tacgctttgg	ctgctctgtc	atctgttgct	240
attgtatctc	agttcgtact	ggtcggtccc	gggaaactgg	atagctctga	gcagtcgatt	300
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<210> 826

<211> 649

<212> DNA

<213> Homo sapiens

<400> 826

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gcaaagtaga	tgttactaaa	gattttgaag	ggatgtgtag	tctttcatca	cctaccttgc	120
agcactcaag	tttacaacc	ctcattgggc	atgtgggggt	tcctgagtcc	cctgtgggaa	180
gtggtttttt	gccatacacc	ttgtttcaga	gctcagcctc	agtttagacag	ggcaggctcc	240
agtttcctca	tctacccctc	tccccacagc	acctctaatt	aaccagccct	tttcttacca	300
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aacaggggac	cgtgtgtata	atgggtgtct	cataagaata	taataccatg	ggtttactat	420
acttttctat	atttagaaat	gttttagattt	aagttagata	tggttagatt	taaaatacgt	480
aacacaggct	ggacccggta	gctcatgcct	ggaatccag	cactttggga	agccgagttg	540
ggtggatcac	ctgagggcag	gagtttggaa	ccaccctggc	caacttgggg	gaccccatte	600
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<210> 827

<211> 791

<212> DNA

<213> Homo sapiens

<400> 827

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tccttacagg	aaacattctt	ggcaaataca	gctccgagat	caggcctgcc	ttcttctctca	180
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gtccggctga	cctggccctt	gtcatatata	tcacccctgc	tggttctctc	actctgttcc	360
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gggcttccat	gcacctgcgc	acacccttca	cctaccgtgt	gcctgaggac	acctggggct	660
gcttcttcgt	gtgcaatctg	ctgtatgcgc	tgggccccca	cctgctggcc	taccgttgcc	720
ttcagtggcc	cgattcttc	caccagccac	caccctccga	ccccctagcc	ctccacaaga	780
agcagcattg	a					791

<210> 828

<211> 348

<212> DNA

<213> Homo sapiens

<400> 828

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aaaggacat ttgcagaatt cagaaaaatt cttcagtttc ttttggctta ttccatgtcc 60
tttaaaaact tgagtatgct tttgcttctg acttggccct acatccttct gggatttctg 120
ttttgtgctt ttgtagtagt taatggtgga attgttattg gcgatcggag tagtcatgaa 180
gcctgtcttc attttcctca actattctac tttttttcat ttactctctt tttttccttt 240
cctcatctcc tgtctcctag caaaattaag acttttcttt ccttagtttg gaaacgtaga 300
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```

<210> 829

<211> 638

<212> DNA

<213> Homo sapiens

<400> 829

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cccacgcgtc cgccccaagc tggatcatgga actgatgccc atcgggtctgc gggggctgat 60
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caccctcttc actatggaca tctggaggcg gctgcgtccc cgctccggcg agcgggagct 180
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ggaattcctg aaccagccc caccgtgcgg agagccagac acgcggccag ccgtcctggg 480
gagcatccac tacctgcact tcgctgtcgc cctctttgca ctcagtgggt ctggtgtggt 540
ggctggaagc ctgctgaccc cacccccaca gagtgtccag attgagaacc ttacctggtg 600
gaccctggct caggatgtgc ccttgggaac taaagcag 638

```

<210> 830

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (428)

<223> n = a,t,c or g

<400> 830

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gtattctccc tggccttggg ctggaccaac atgctctact acaccgcggg tttccagcag 180
atgggcatct atgccgtcat gatagagaag atgatcctga gagacctgtg ccgtttcatg 240
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gggaagaatg actccctgcc gtctgagtc acgtcgaca ggtggcgggg tttttctnan 360
acccccctct ntcttctaca taaactgtac tccacctgcc tggaactgtc caactccacc 420
atngattg 428

```

<210> 831

<211> 892

<212> DNA

<213> Homo sapiens

<400> 831

```

cccggaagct gggaaatgac ttattaacct tcatggcctc tggctcttctg aggaagcagt      60
ctgaggagacc cgagttttga aaaggggaagc aatcctccaa ggctgcgatt tccacagaaa      120
tcacatgtga gccacagggtg tcatttttaa atttctagta gcaacagaaa cgaggaataa      180
acagatgggtg tttgagtcac tgaatttttg gaaggacttc aaatgtcaag cattattctc      240
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tcattctctt gttcaggcat gagaggatgat accagagcct tcgcaacacc agccgctccc      420
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens


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<212> DNA

<213> Homo sapiens

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<210> 839

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = a,t,c or g

<400> 839

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ctcatttttt	cctgctacag	gttcctcagt	ggtgtgctga	atattgtctt	tccatccact	180
accagcacgg	gggcgtgata	tgcacacagg	tccacaagca	gactgtggtc	cagctcgccc	240
tgcgggtggc	ggatgaaatg	gatgttaaca	ttggtcatga	ggttggctac	gtgatccctt	300
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cctgctgatg	attcttggct	taggttctac	aattctgaag	gagcattatt	ctggcattct	420
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<210> 840

<211> 858

<212> DNA

<213> Homo sapiens

<400> 840

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ttgccacatg	aaaacttctc	tcataaaacc	cacaggggtg	aagttctctc	ctggtgccct	240
gagtgcacc	tcccaggccc	tctgtatgag	tgacacttca	gtctgccatg	gaacctggcc	300
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gtggatttaa	atgtttcacc	tgtgaaaagg	cagcagacaa	ttatgagtgc	aaccgatggg	480
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gtactacata	gccagctgcc	ttctcttcag	acatctgcca	gtactcatga	gcagattctt	720
actccccctg	gaaggctgtc	ttttgattgt	ctttatgctc	tgtgaaaaga	cgcttccttt	780
cctgtttact	ctaaaagaat	acacatttat	accagagcat	aggacaactg	atataaattg	840
tgtaaacaca	catgaaga					858

<210> 841

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (459)

<223> n = a,t,c or g

<400> 841

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tgttctcttt	gtaaaccatct	caagaagatg	cggctccata	gcaaaggatc	tcaagatccc	240
agcaccaagg	tccatataaa	agctttgcaa	actgtgacct	ccttcctcat	gttatttggc	300
atttactttc	tgtgtataat	cacatcaact	tggaaatctta	ggacacagca	gagcaaaact	360
gtactcctgc	tttgccaaac	tgttgcaatc	atgtatcctt	cattccaactc	attcatcctg	420
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<210> 842
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 842
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 acgaataaat ctctgttgaa gagataccat ttgacathtt agagatggct gcatgcaaac 180
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 ctgc 424

<210> 843
 <211> 697
 <212> DNA
 <213> Homo sapiens

<400> 843
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 gactttttctc ttctgcatct atatcgattc gctcctctgt actgttccga agaaccagc 180
 acaggcggta cagctgaaca gggaccatac aaaagtgcac tagtaatagg caaatgtttg 240
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 atgatatact taaaaatacc tacttctgga tttgtaattt cagcaaagtt gaagatttag 480
 ctaacctaca ctatacccca gcttctactca ttgtccttaa catccaacag ttatttagcca 540
 catcatgatt tccttcagtt tatctaattg ttgcttttat aactttcaaa ctatcttctt 600
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<210> 844
 <211> 698
 <212> DNA
 <213> Homo sapiens

<400> 844
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 aggatcatgg ctgtaattag ggtcatgggt gtagttagggt tcacggctat agttggggctc 240
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 gtagttagggt tcattggtgg agctaggccc atgggtggtag ttagggtcat ggctgtagtt 360
 agagtcattg cggtagtggt gctcagggct atatgttcgt cgtcgtgaa cgttacgttt 420
 tcgcttgaat agtcaagccc tgctcgtct tttctttttt tcaactccaca aagaatcgtc 480
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tttggttatg taactcttag tcgtccttgc atacacctcc cccccgcgg ggtggttacc 600
cccgagttgc gagagcaatt ctaaactagc cgtttttagcg taccctcttc actgaacctg 660
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<210> 845
<211> 627
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1) ... (627)
<223> n = a,t,c or g

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<400> 845
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aagcgtcttg tcagatccca gcacagccta ctcccttggg cctgggcacc tccagggctg 360
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gagagctcgt ggttggctgt gccgttacct tcttcggatt gtcagactcc agactttggg 480
ccagttctgc cctcccagc acatgtgatg tgccagtgtg gtggactctt caagggagct 540
ctatggatgt taacctcct ccttcctgt ancctggcct gagacaggag aatggatgat 600
gcctttaatc agagctggtt tgactta 627

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<210> 846
<211> 635
<212> DNA
<213> Homo sapiens

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<400> 846
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tcgggtagcc gctgtgaact ctcaactcac ccacc 635

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<210> 847
<211> 1100
<212> DNA
<213> Homo sapiens

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<400> 847

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<210> 848

<211> 685

<212> DNA

<213> Homo sapiens

<400> 848

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<210> 849

<211> 413

<212> DNA

<213> Homo sapiens

<400> 849

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<210> 850
 <211> 395
 <212> DNA
 <213> Homo sapiens

<400> 850
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<210> 851
 <211> 904
 <212> DNA
 <213> Homo sapiens

<400> 851
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<210> 852
 <211> 592
 <212> DNA
 <213> Homo sapiens

<400> 852
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 tccccaatc aactcatgag ggtttcaatg tcaccctcca caccacctg gttgtcacga 120
 cgaaactggg gctcccgaac cctggcaagc ccatcctccc cgtgcagaca ggggagcagg 180
 ccagcaaga ggagcagtc agcgcatga ccattttctt cagcctcctt gtcctagcta 240
 tctgcatcat attggtgcat ttactgatcc gatacagatt acattttctt ccagagagtg 300
 ttgctgttgt ttctttaggt attctcatgg gagcagttat aaaaattata gagtttaaaa 360

aactggcgaa	ttggaaggaa	gaagaaatgt	ttcgtccaaa	catgtttttc	ctcctcctgc	420
ttccccctat	tatctttgag	tctggatatt	cattacacaa	gggtaacttc	tttcaaaaata	480
ttgggttccat	caccctgttt	gctgtttttg	gaacggcaat	ctccgctttt	gtagtaggtg	540
gaggaattta	ttttctgggt	caggctcacg	taatctctaa	actcaacatg	ac	592

<210> 853

<211> 436

<212> DNA

<213> Homo sapiens

<400> 853

cccaggcg	cttttaacca	gcatctgggg	tgaccaatct	aagtagacag	ggtcaggaca	60
acactgatgt	gtatacagat	gctgtttccc	tgctgttctc	ttctaagtat	gaatcccggg	120
cccctttgca	gacccagtag	gtgaatccaa	ttacgtagag	caggggactg	tggagctgtg	180
ttgtgagcag	cacccagggtg	atgccccatg	gcagcatgtc	ccacattcct	tccatctttt	240
aaaaaaaaatt	tttctcggtg	gcagtcttgc	tctgtcgcct	aggctggggg	acagtgggtg	300
aatctcagct	caccgcagcc	tcaacctccc	gggttcaagc	aatcctccca	ccttggcctc	360
ccaaagccaa	agattgcagg	tgtgagtcct	cggctcggcg	gtgggtcgac	cgggaattcc	420
ggccggacga	cgtcgt					436

<210> 854

<211> 266

<212> DNA

<213> Homo sapiens

<400> 854

agaaactgcc	tctctggatg	gtgactataa	cctatagcct	tgcccaatat	gactcaggat	60
ttgggtactga	ctgtgccttt	catgggatgc	ttacttatcc	tggtcgatgg	cctaaagccc	120
aaccgtccag	cttatatcca	gacagggctc	caagccaccc	aggctggagt	gcagtggcac	180
aatttatggct	cactgtagcc	tcaccttcct	gggatcaagc	aatcttcttt	cttcagcctc	240
cagaggagct	gggaccacag	atcctt				266

<210> 855

<211> 420

<212> DNA

<213> Homo sapiens

<400> 855

agcctgcagg	cccagctcgc	ccaggcagag	cagcggggccc	agagcctcca	aggggctgca	60
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agacttaaga	atgctgggtga	agagtgcagg	agcctcaggg	gccagcttga	ggagcaaggc	180
cggcagctgc	aggctgctga	ggaagctgtg	gagaagctga	aggccaccca	agcagacatg	240
ggagagaagt	tgagctgcac	tagcaaccat	cttgcagagt	gccaggcggc	catgctgagg	300
aaggacaagg	aggggggtgc	cctgcgtgaa	gaccaagaaa	ggaccagaa	ggaactcgaa	360
aaagccacgt	gtattgcgga	cgaaatcgtc	gacccgggaa	gtccgggtccg	aatgctgtca	420

<210> 856

<211> 412

<212> DNA

<213> Homo sapiens

<400> 856

tttcgtcgcg	ttctctcgct	gcctgggctt	ctgtggaatg	agactcgggc	tccttctact	60
tgcaagacac	tggtgcattg	caggtgtgtt	tccgcagaag	tttcatgggtg	acagtgccta	120
cgtgggggatg	agtgcaggaa	accagagct	cctgtcaacc	agccagacct	acaacggcca	180
gagcgagaac	aacgaagact	atgagatccc	cccgataaca	cctcccaacc	tcccgagacc	240
atccctcctg	cacctggggg	accacgaagc	cagctaccac	tcgctgtgcc	acggcctcac	300
ccccaacggt	ctgctccctg	cctactccta	tcaggccatg	gacctcccag	ccatcatggt	360
gtccaacatg	ctagcacagg	acagccacct	gctgtcgggc	cagctgcccc	cg	412

<210> 857

<211> 403

<212> DNA

<213> Homo sapiens

<400> 857

cgggtccggcg	caaggagggc	ggctggttgt	ggaaaaaggc	ctgggcgagc	tgtgcctgca	60
gccccctggct	ggtttgggaa	ggctgggctc	ccaggctggt	ggtagtggtg	gggggtgattt	120
tcctcatgaa	gccccactc	cgtccactac	tgcctgacac	ccacgaagcg	agcagtttcc	180
ggagctctcc	gatgtagggg	cagcaggtgt	agagcagctg	ctggtccacc	acaggcgcat	240
tgtccaagcc	atgctctggg	gctactgtgt	ccacctcaaa	ggcatatgag	ggaccctctt	300
ccagaaagaa	caagtccctc	gggactgtgg	gaatctggaa	aagccagtcc	agggcagcaa	360
gaagcagcag	cttgttcagg	aaacacatct	tcccctcact	ctc		403

<210> 858

<211> 439

<212> DNA

<213> Homo sapiens

<400> 858

tgagggtggc	gcaggggccc	cggccagccc	ggggctgcag	cagtgcggac	agctccagaa	60
gctcatggc	atctccattg	gcagcctgcg	cgggctgggc	accaagtgcg	ctgtgtccaa	120
cgacctcacc	gagcaggaga	tacggaccct	ggagcattgt	cccaattcct	tcttctaattg	180
aagaaatacg	cttagttgat	gatgcgtttg	gaaaaatttg	tcacatggtc	agtgatggct	240
cttgggtggg	tcgtgttcag	gcagcaaaac	tggtgggctc	tatggagcaa	gtcagttctc	300
atttcttgga	gcagaccctt	gacaagaagc	atgtcagatc	tgaggaggaa	acgtactgca	360
catgagcgtg	ccaaggaact	ttacagtctg	ggggagtttt	ccagtggcag	aaagtgggga	420
gatgatgctc	ccaaggaag					439

<210> 859

<211> 985

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(985)

<223> n = a,t,c or g

<400> 859

ggcagcatgg	tgggtgccga	gaaggagcag	agctggatcc	ccaagatctt	caagaagaag	60
acctgcacga	cgttcatagt	tgactccaca	gatccgggga	gcctggattg	tcactggggg	120
tctgcacacg	ggcatcggcc	ggcatgttgg	tgtggctgta	cgggaccatc	agatggccag	180
cactgggggc	accaaggtgg	tggccatggg	tgtggccccc	tggggtgtgg	tccggaatag	240
agacaccctc	atcaacccca	agggctcgtt	ccctgcgagg	taccggtggc	gcggtgacct	300
ggaggacggg	gtccagtttc	ccctggacta	caactactcg	gccttcttcc	tgggtggacga	360
cggcacacac	ggctgcctgg	ggggcgagaa	ccgcttccgc	ttgcgcctgg	agtcctacat	420
ctcacagcaa	aacacggccg	tggcagggac	tgggaattgac	atccctggcc	tgctcctcct	480
gaaagaatgt	gatgagaaga	tggtagcgcg	aatacacaac	gccagccagg	ctcagctccc	540
atgtcttctc	tatgattgcg	ttaaggggga	gctacggact	tgcctagcgg	gcaccccttg	600
gaataccctc	ttgcccccg	gaacggtggg	tttcagcct	acgccccgaa	ccccgagaat	660
gcattccacg	gcctcgtttt	gctgaattga	ngatccttgg	acgtccttgc	atcccacatc	720
gtggcgaaat	tatttatcta	cccccccg	ccggtgggag	taattgcata	cttccatccc	780
tattgcctcg	ttttggagga	gttggtagct	ctcacttcta	tcggtaatag	gacattaccg	840
tatccgacct	tatgactcgg	ttccccgatc	aacaatcgac	tagtaccggc	cgcggccacc	900
tacctcctta	taaacattct	cttaccggca	cctccgtcct	tggtagtaaa	ctcctggcgc	960
tgtatctgtg	tgctactgct	aggcc				985

<210> 860

<211> 396

<212> DNA

<213> Homo sapiens

<400> 860

ctgcagaacc	gagaggattc	ttctgaaggc	atcagaaaga	agctggtgga	agctgaggag	60
ctcgaagaga	aacatcggga	ggcccaagtc	tcagcccagc	acctagaagt	gcacctgaaa	120
cagaaagagc	agcactatga	ggaaaagatt	aaagtgttgg	acaatcagat	aaagaaagac	180
ctggctgaca	aggagacact	ggagaacatg	atgcagagac	acgaggagga	ggcccatgag	240
aaggggcaaaa	ttctcagcga	acagaaggcg	atgatcaatg	ctatggattc	caagatcaga	300
tcctctggaa	agaggattgt	ggaactgtct	gaagccaata	aacttgagc	aaatagcagt	360
cttttttacc	aaaggaacat	gaaggcccaa	tgtatt			396

<210> 861

<211> 686

<212> DNA

<213> Homo sapiens

<400> 861

caagggaggg	ctctgtgcc	gccccgatga	ggacgctgct	gaccatcttg	actgtgggat	60
ccttggtctg	tcacgcccct	gaggaccct	cggatctgct	ccagcacgtg	aaattccagt	120
ccagcaactt	tgaacacatc	ctgacgtggg	acagcgggcc	agagggcacc	ccagacacgg	180
tctacagcat	cgagtataag	acgtacggag	agagggaactg	ggtggcaaa	aagggtgtgc	240
agcggatcac	ccggaagtcc	tgcaacctga	cgggtggagac	gggcaacctc	acggagctct	300
actatgccag	ggtcacccgt	gtcagtgcgg	gaggccgggtc	agccaccaag	atgactgaca	360
ggttcagctc	tctgcagcac	actaccctca	agccacctga	tgtgacctgt	atctccaaag	420
tgagatcgat	tcagatgatt	gttcatccta	ccccacgcgc	aatccgtgca	ggcgatggcc	480
accggctaac	cctggaagac	atcttccatg	acctgttcta	ccacttagag	ctccaggtca	540
accgcacctc	ccaaatgggtg	agtgtatgtt	gcacctgggt	ctttctctgc	ctaggaagcc	600
tcttccctcc	caattagatc	tgagttgctt	taagaaaaaa	aggggacatg	ttatgtaaat	660
tagcatttcc	cacaacatgt	cccttg				686

<210> 862
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 862
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 cccctgggtg tggagtgtgg cagctgccct gcctgccctg ctgctgtcta tcctcatctt 120
 catggaccaa cagatcacag cagtcacctt caaccgcatg gaatacagac tgcagaaggg 180
 agctggcttc cacctggacc tcttctgtgt ggctgtgtgt atgctactca catcagcgct 240
 tggactgcct tggatatgtc cagccactgt catctccctg gctcacatgg acagtcttcg 300
 gagagagagc agagcctgtg cccccgggga gcgccccaac ttctctgggta tcaggggaaca 360
 gaggctgaca ggctgtgttg tgt 383

<210> 863
 <211> 673
 <212> DNA
 <213> Homo sapiens

<400> 863
 caaccccaag accaagaagc acctgggcat tgccaagggtg gtcttttgcca cggccggggg 60
 agccaaggat gccgttcagc acttgcacag cacttccgtc atgggcaaca ttatccacgt 120
 ggagctggac accaaagggtg agcctggcag gggaggagcg tggggagacc tgtcagcccg 180
 accctttccc tccccaccct tcttgcagcg tggggaggac cccccctcac tcttccttgg 240
 gatccccccc cacaacctta tttcttagcc ccctcctgag ggtagagtcg cgtggagcta 300
 aatgtgttgt ctgttgctag gagacagtct gtaatttacc aaatgtgccg gtccctggcc 360
 accgcacccc tagggaccac ccggaggctt cccacccgct gacacccccg cgggccccct 420
 ctctgagccc tgggtggcttg ggtttagaca gtccccagtg ttgcctgtgt taggggagga 480
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 tcaagagaag gtctgaaaac tgaaaagaga gtcctctaag gatccagggg gtccccccac 600
 ctcttctgtg acccttcccc tctggaagtg gcagccaatc tggggcccag gaatgttgtt 660
 tcattgataa ggg 673

<210> 864
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(435)
 <223> n = a,t,c or g

<400> 864
 gggaaatgtg tgggagccct gagcgtttgt gtgtgcgctg cgctcgtgtg tgcgctgtgt 60
 tcatgcgtgc gctgtgtgtt gtgtgtgtat atctgcggag acgcataaag tatgagcgt 120
 ttttaggatg ggaattgaga tgtaagattt ggggggtgagg gccnccctga cccataggcc 180
 tgacatcctc atcctatgga ccctagagtc tggccactcc aggaacctga cctgctctgt 240
 gccccgcccc tgtaagcata gaacaccccc catgatctcc tggagtgggg cctccgagac 300

ctccccgggc	cccaactactg	cccgttctctc	agtgtctacc	cttaccctcaa	agccccagga	360
nnaccggnc	agccctcacc	tgtnaggttg	accttgctg	gggacagggt	gtgaccacg	420
accnatacct	ntn					435

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<210> 865
<211> 2161
<212> DNA
<213> Homo sapiens
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<400>	865					
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tgatctaate	ccgggagact	tgagggaact	ccgagtagaa	cctgttacaa	ctagtgttgc	180
aacaggggac	tattcaattt	tgatgaatgt	aagctgggta	ctccgggcag	atgcccagcat	240
ccgctgtgtg	aaggccacca	agattttgtgt	gacggggcaa	agcaaacctcc	agtcctacag	300
ctgtgtgagg	tgcaattaca	cagaggcctt	ccagactcag	accagaccct	ctgggtggtaa	360
atggacattt	tctacatcg	gcttccctgt	agagctgaac	acagtctatt	tcatctggggc	420
ccataatatt	cctaattgaa	atatgaatga	agatggccct	tccatgtctg	tgaatttcac	480
ctcaccaggc	tgcttagacc	acataatgaa	atataaaaaa	aagtgtgtca	aggccggaag	540
cctgtgggat	ccgacaatca	ctgcttgtta	gagaagttag	gagacagtag	aagtgaactt	600
cacaaccact	ccctgggaa	acagatacat	ggctcttatc	caacacagca	ctatcatcgg	660
gttttctcag	gtgtttgagc	cacaccagaa	gaaacaaacg	cgagcttcag	tggtgatttc	720
agtgactggg	gatagtgaag	gtgctacggg	gcagctgact	ccatattttc	ctacttgtgg	780
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gctggtggcc	acatgggtgc	tggtggcagg	gatctatcta	atgtggaggc	acgaaaggat	960
caagaagact	tctttttctc	ccaccacact	actgcccccc	attaaggttc	ttgtggttta	1020
cccatctgaa	atatgtttcc	atcacacaat	ttgttacttc	actgaatttc	ttcaaaacca	1080
ttgcagaagt	gaggtcatcc	ttgaaaagtg	gcagaaaaag	aaaatagcag	agatgggtcc	1140
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ctctcaagac	ctattccccc	ttgcctttta	ccttttctgc	agtgatctaa	gaagccagat	1320
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caattacagg	gaaaaaacgt	gtgatgatcc	tgaagcttac	tatgcagcct	acaaacagcc	1620
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taactaaca	ttggaaaacta	catttacaac	ttcaaaagct	ttttatacat	agaaatcaat	1740
tacagtttta	attgaaaact	ataaccattt	tgataattgc	acaataaagc	atcttcagcc	1800
aaacatctag	tcttccatag	accatgcatt	gcagtgtacc	cagaactgtt	tagctaatat	1860
tctatgttta	attaatgaat	actaactcta	agaacccttc	actgattcac	tcaatagcat	1920
cttaagtga	aaaccttcta	ttacatgcaa	aaaatcattg	tttttaagat	aacaaaagta	1980
gggaataaac	aagctgaacc	cacttttact	ggaccaaagt	atctattata	tgtgtaacca	2040
cttgtatgat	ttggtatttg	cataagacct	tccctctaca	aactagattc	atatcttgat	2100
tcttgtagag	gtgcctttta	acatgaacaa	caaaatacc	acaaacttgt	ctacttttgc	2160
c						2163

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<210> 866
<211> 505
<212> DNA
<213> Homo sapiens
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<220>

<221> misc_feature
 <222> (1) ... (505)
 <223> n = a,t,c or g

<400> 866
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 tggggttgga atattctact ttgttattta tatcatcata tccttcctgg ttgtggtgaa 120
 catgtacatt gcagtcatac tggagaattt tagtggtgcc actgaagaaa gtactgaacc 180
 tctgagtgag gatgactttg agatgttcta tgaggtttgg gagaagtgtg atcccgatgc 240
 gaccagttt atagagttct ctaaaactctc tgattttgca gctgccctgg atcctcctct 300
 tctcatagca aaaccaaca aagtccagct cattgccatg gatctgcca tgggttagtg 360
 tgaccggatc cattgtcttg acatcttatt tgcttttaca aagcgtgttt tgggtgagag 420
 tggggagatg gattctcttc gttcacagat ggaagaaagg ttcattgtctg caaatccttc 480
 caaagtgtcc tatgaacca tcaca 505

<210> 867
 <211> 608
 <212> DNA
 <213> Homo sapiens

<400> 867
 ttcagttttt ggctctgggtg caccatgtgc ctgggttaat ttgggtggct caatcccaaa 60
 gcagctctga accccaaagc ggctcctctg aattcccagt ttcaagttcc actctgtccc 120
 tgctgggcat ctcgagatat gggaaacagg gctgttataa ttgccagaca gctgagttct 180
 gtacatacct tgatttgcaa ttttttttgg ctgcttctca ggacaactgg gggagattta 240
 gattccttaa aatgcagtta tgaatctatt ggcctcaact ctatttctac ccatgaattc 300
 atttgtactt ggcaaagacg acttaatttc tcatttggtta tgtcatttaa acctctcttt 360
 agagcctctc ctcactctta cctgttaata atcggaaagtc agctacatga aacgttcaat 420
 ttgggttcca tctcctctga agaaaaatgc agttaaaaaa aaaataagag gtttggccag 480
 ccgagtggtc tcacacctgt aatcccagca ttttgggagg ccgaggcagt cagatcacct 540
 gggggcggga gttcgggaac cggcctggcc caacacagga gaaaccccg tttataactaa 600
 acaatata 608

<210> 868
 <211> 772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (772)
 <223> n = a,t,c or g

<400> 868
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 ctctggccaa ggtggctggc agacaagatg ctgcccctcc tgggggcagt gctgcttcag 120
 aagagagaga agagggggcc tctgtggagg cactggcggc gggaaacctc cccatactat 180
 gacctccagg tgaagggtgct gagggccaca aacatccggg gcacagacct gctgtccaaa 240
 gccgactgct atgtgcaact gtggctgccc acggcgctcc caagccctgc ccagactagg 300
 atagtggcca actgcagtga ccccgagtgg aatgagacct tccactacca gatccatggt 360
 gctgtgaaga acgtcctgga gctcaccttc tatgacaagg acatcctggg cagcgaccag 420
 ctctctctgc tcctgtttga cctgagaagc ctcaagtgtg gccaacctca caaacacacc 480


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ttcccaactca accaccagga ttcacaagag ctgcagggtg aatttggtct ggagaagagc 540
caggagcctg catctgaagt catcaccaac ggggttcttg gggctcacc ctggctgaga 600
atgaagggtg tgattttggg agaggggaga gcccacggc aacagcacgg ccaatcttgg 660
gagggggggg tgggaccctc cccctctctc ccnnnganaa acaccggagg gaagatagtt 720
gggttttggg aagaaatggc gaatgggacc ggcgccccac ccgcccccc ct 772

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<210> 869
<211> 704
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1) ... (704)
<223> n = a,t,c or g

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<400> 869
tttcgtggca tgatgagcat gattaccagc ctcgccact ggctgctgca gggcttttcc 60
tgagccatgg tgtcttctgc cgtcaaaggc cgaccctaac tgcattctgc tggagtcgag 120
aaaaccagggt agactggaaa ggatgtgtct acagtaactg aaacacatca ctgcgttttg 180
ttacagtcaa tgatagggca gatctgagtt ccagagcacg gctcacagac ctttccttgc 240
atcagtctgt gccgaagtcn nnnnnnnnnc ttttttcttt ttttgccac attacatcac 300
ttcataatatt accacctacg tagcatgact gtatatattgg aatcatttct tcacaagttt 360
tagaccatat taaaggaaca ctggcagaac cctgtttgat ttccctttcg tctgttcccc 420
tacattgccc tcctggcccc cttgaggaac tagatgagcg attagaactg gccagaggtc 480
cttggaggaa caacagcgaa acagaagcat tagtagcatt gtcctcccca gtctaact 540
tgtcggaacc ctgatgagca gacttccttg tggggtgttc atatcccat gccccgctca 600
gtgggcttca tgtctgagtc atatttgctt gctttccttt gaggtggtgg gcgccaaggt 660
tgtgacaaat gcccgagtc ctggagctcg ctgttacggt tttg 704

```

```

<210> 870
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<400> 870
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accagcgaga ggaggaaccc accagaagga ggaaaacgcg gaacacatct gaatatcaga 180
aggaacaaac tcagacacg ccgcctttaa gaactgtaac agtcaccgcg aggggtccgtg 240
gtttcattct tgaagtaagt gagaccaaga acctgccaat ttcagacaca atggagagcg 300
ccagtctctg tgcggggcca tacatctatt taatttcctc tcactctccc ccgggttccg 360
agaggaaggt gctttcacct gactgttc

```

```

<210> 871
<211> 643
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

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<222> (1) ... (643)

<223> n = a,t,c or g

<400> 871

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tttcgtggat ggagccctcc tectgatcct gtagtggttag taagaatcac cagcgcgggc      60
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ccgggagcgc gcggatgtcg gtgttcctgg ggccagggat gccctctgca tctttattag      180
taaatcttct ttcagcttta ctcatcctat ttgtgtttgg agaaacagaa ataagattta      240
ctggacaaac tgaatttggt gttaatgaaa caagtacaac agttattcgt cttatcattg      300
aaaggatagg agagccagca aatgttactg caattgtatc gctgtatgga gaggacgctg      360
gtgacttttt tgacacatat gctgcagctt ttatacctgc cggagaaaca aacagaaacag      420
tgtacatagc agtatgtgat gatgacttac cagagcctga cgaaactttt atttttcact      480
taacattaca gaaaccttca gcaaagtgtg agcttggatg gccaaaggact gttactgtga      540
caatattatc aaatggacaa atggcatttt gggaatttat tttcatttta aatattggcc      600
ttccccctcc aattccgcca agtgggaagnt tgaaagcccc cct                        643

```

<210> 872

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (498)

<223> n = a,t,c or g

<400> 872

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agatgtactt gtgcttcctg ctggcctgct tgctgcagct ctacgtggcc acggaggcca      180
tcttcattgc actggttggg gccacgccat cctaccactg ggacctggca gagctcctgc      240
caaatcagag ccacggtaac cagtcagctg gtgaagacca ggcctttggg gactggctcc      300
tgacagccaa cggcagttag atccataaag acgtgcattt cagcagcagc ttcacctcta      360
tcgcctcgga gtggttttta attgccaaca gatcctacaa agtcagtga gcaagctctt      420
ttttcttcag tgggtgattt gttggagtta tctcttttgg tcagctttca gatcgcttcg      480
gaaggaaaaa agtctatc

```

<210> 873

<211> 404

<212> DNA

<213> Homo sapiens

<400> 873

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tttcgtctgt gagctgcggc agctgagcag agggcgcggc gcggggacctg cagtcgccag      60
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ctgccgcgcg tcgcctggga ttacgtgctg cgtcttgctg ctactcaatt gctcgggggt      180
ccccatgtct ctggcttcct ccttcttgac aggttctggt gcaaaatgtg aaaatgaagg      240
tgaagtccct cagattccat ttatcacaga caacccttg ataatgtgtg tctgcttgaa      300
caaggaagtg acatgtaaga gagagaagtg ccccgctgct tcccgagact gtgccttggc      360
catcaagcag aggggagcct gttgtgaaca gtgcgaagggt tgca                        404

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<210> 874
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 874
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 gcatccatcg gcagctctgt ggtgagggac aggggtgattg gagccaaaag gttgcagcac 120
 ataagtggcc ttggctacag gatgtactgg ttcacaaact tcctatatga catgctcttt 180
 tacttggttt ccgtctgcct gtgtgttgcc gttattgtcg ccttccagtt aacagctttt 240
 actttccgca agaacttggc agccacggcc ctccgtgtgt cacttttcgg atatgcaact 300
 cttccatgga tgtacctgat gtccagaatc ttttccagtt cggacgtggc tttcatttcc 360
 tatgtctcac taaacttcac ctttggcctt tgtaccatgc tcataaccat tatgccccgg 420
 ttgctagcca tcatc 435

<210> 875
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 875
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 ccctcaactt ctcccttcagc cataaatcag acatctggtc cctgggctgc atcattctgg 180
 acatgaccag ctgctccttc atggatggca cagaagccat gcatctgcgg aagtccctcc 240
 gccagagccc aggcagcctg aaggccgtcc tgaagacaat ggaggagaag cagatcccgg 300
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 tctctccacc ctaatacaag cacagctagt tggctttgta acgcctcaaa gaactccatc 480
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 gtgctgcggc gagttaatccc gaatgtacgg tggagtgcgc agactgaccc ccaggaggca 600
 caggaggcgt agcccccagg acccacgaca cttttagggg tccagaaaaa agttttcatt 660
 caacataaaa aaaaaaaaaa tcctaaagac aaaaaaaaaa aaa 703

<210> 876
 <211> 429
 <212> DNA
 <213> Homo sapiens

<400> 876
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 gctggctgct ggcaactgtgc ctggcctggc tgtggaccca cctgaccttg gctgccctgc 180
 agcctccac tgccacagtg cttgtgcagc agggcacctg cgaggtgatt gcggctcacc 240
 gctgctgcaa ccggaaccgc atcgaggagc gctcccagac ggtgaaatgc tcctgttttt 300
 ctggccaggt ggccggcacc acgcgggcaa agccctcctg cgtggacgac ctgctcttgg 360
 ctgcccactg tgctcgtaga gaccctagag ctgcaactcc cctcctgctt ccacagcctc 420
 catcgtcct 429

<210> 877
 <211> 1140
 <212> DNA
 <213> Homo sapiens

<400> 877
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 caccaagatg atcctgagct tgctgttcag ccttgggggc cccctgggct gggggctgct 120
 gggggcatgg gccagggctt ccagtactag cctctctgat ctgcagagct ccaggacacc 180
 tggggtctgg aaggcagagg ctgaggacac cggcaaggac cccgttggac gtaactggtg 240
 cccctaccca atgtccaagc tggtcacctt actagctctt tgcaaaacag agaaattcct 300
 catccactcg cagcagccgt gtccgcaggg agctccagac tgccagaaaag tcaaagtcac 360
 gtaccgcatg gccacaagc cagtgtacca ggtcaagcag aagggtgctga cctctttggc 420
 ctggagggtgc tgccctggct acacggggcc caactgcgag caccacgatt ccattggcaat 480
 cctgagcctc gcagatcctg gtgacagcca ccaggaacct caggatggac cagtcagctt 540
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 cgagttccct gatagatcct tggagcaggt gctgtacccc cacgtggaca ccttcctaca 780
 agtgcatctc agcccatctt ggaggagctt taaccaaagc ctgcacagcc ttaccaggc 840
 cataagaaac ctgtctcttg acgtggaggc caaccgccag gccatctcca gattccagga 900
 cagtgccgtg gccagggtct acttccagga gcttgggtgc aaatttgagg ocaaggtcca 960
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 gcactttacc ctgcaccgct cgatctcaga gctccaagcc gatgtggaca ccaaattgaa 1080
 gaggctgcac aaggctcagg aggccccagg gaccaatggc agtctggtgt tggaacgcct 1140

<210> 878
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<400> 878
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 tgcgagctct gcaagtatga gttcatcatg gagaccaagc tgaagccact gagaaaatgg 180
 gagaagtggc agatgacgct cagcagcgc aggaagatca tgtgctcagt gacattccac 240
 gtcattgcca tcacatgtgt ggtctggtcc ttgtatgtgc tcattgaccg tactgctgag 300
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 gtgcaattgt ggaagagact caaggcctat aatagagtga tctatgttca aaactgtcca 480
 gaaacaagca aaaagaatat ttttgaaaaa tctccactaa cagagcccaa ctttgaaaat 540
 aaacatggat atggaatctg tcattccgac acaaaactctt cttgttgac agagcctgaa 600
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 cattggggag tgtctaagcc atgacagaga gattccctct gcatacggc gaaccccccag 1080
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<210> 879

<211> 478
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = a,t,c or g

<400> 879
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 gtgaatgtca gttcgtcggt cactgactcc gtctgctctt ggcttgtgt tcattttaca 120
 aatatttgcc cacggcctcc caggcccagg cccatgccac ctgggccccg gcactctgtt 180
 gaggatctgc caatgtgctc ttaactgagg acgaaggaag aacacctttc tatgagtctt 240
 gcaaagatta cctccttcag gccacaaata tttgagtgc cactacgtgc caggcactgt 300
 gcagggtctg aggcataag acagaatgta atctatctgg gccttggacc ccatagggag 360
 aggggaccac tcaggtccat acttcctttg gacttggggc tttggccttg ggagggcg 420
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<210> 880
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 880
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 ctgacactca cgaggcagta tatgcggatg atgggagtg atccagtgat ccatttcctg 180
 gcctgggtcc tggagaacat ggctgtgttg accataagca gtgctactct ggccatcggt 240
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 gattttggga tgcagtcgt catgtgagc tacctcttga gtgcattttt cagccaagct 360
 aatacagcgg ccctttgtac cagcctgggtg tacatgatca gctttctgcc ctacatagtt 420
 ctattgggtc tacataacca attaagtttt gttaatcaga catttctgtg ccttctttcg 480
 acaaccgcct ttggacaagg ggtatttttt attacattcc tggaaggaca agagacaggg 540
 attcac 546

<210> 881
 <211> 918
 <212> DNA
 <213> Homo sapiens

<400> 881
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 tttaaaatct gatataattg cataaaagta attgtacata tatatatgaa tgtgatttat 180
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 tgcacaaatc tgtgtgcagt gctttttgcc cgttgcttag acgatcaact ggtttctctg 300
 aggatgtctg gttctcgtaa agagtttgat gtgaaacaga ttttgaaaat cagatggagg 360
 tggtttgggt atcaagcatc atctccta at tctacagttg acagccagca gggagaattt 420
 tggaaccgag gacagactgg agcaaacggt gggagaaagt ttttagatcc atgtagccta 480
 caattgcctt tggcttcaat tggttaccga aggtccagcc aactggattt tcagaattca 540
 ccttcttggc caatggcatc cacctctgaa gtccctgcat ttgagtttac agcagaagat 600

tgtggcgggtg	cacattgggt	ggatagacca	gaagtggatg	atggcactag	tgaagaagaa	660
aatgaatctg	attccagttc	atgcaggact	tccaatagta	gtcagacatt	atcatcctgt	720
catactatgg	agccatgtac	atcagatgaa	tttttccaag	cccttaatca	tgccgagcaa	780
acatttaaaa	aaatggaaaa	ctatttgaga	cataaacagt	tgtgtgatgt	aatttttagtc	840
gctggtgatc	gcagaattcc	agctcacaga	ttggtgctct	cctctgtctc	agactatttt	900
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<210> 882
 <211> 604
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (604)
 <223> n = a,t,c or g

<400> 882	
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tcactctaag	attgatccac
tgctgcagag	gatgctgac
tggccttttg	cgtggccagg
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tggtatgggtac	cacgtatgac
tgtgtgtgga	gctggatgag
tggtgtgcat	ctacatgtta
ttgg	

<210> 883
 <211> 1206
 <212> DNA
 <213> Homo sapiens

<400> 883	
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gacttaagga	tcccccacaa
gcttctcaac	tcagtccac
acatctccaa	gttacagagg
aacttataag	cctgttgatt
ctgctccttc	ctgcagcgtc
tccttattaa	acatcccctg
attcagggac	cccacggggt
gtcattacca	aaaactccaa
tcaaagatcc	cagcccttat
aaggcagggtg	aaagcaagcc
gacatctttc	ctctgaggct
agtggccatg	aactctccat
atttaaggag	aaagtcaaa
acagagcatc	ctgcatttgt

caaatgacaa	atgctacccc	acctccgcc	ggcagccaga	gccagggccg	aaggacgcgg	1080
aaaggaactg	gtgtggaac	ctgcccagga	accgcactct	caactgagaa	gagtcggggg	1140
cgcgccccg	cccggccgcc	cggctgtgaa	ttccgccaca	cggcctaggg	tgctcgaggt	1200
ctcgat						1206

<210> 884

<211> 420

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (420)

<223> n = a,t,c or g

<400> 884

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cggtcagca	gtattcgccc	aacgggcgta	tcggaacca	ctgatctcgt	tccttgctcg	180
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cgactatctc	aaagccttca	tcgacgtccc	aaccgttcca	gcggcgctcg	tccttctgct	300
cctggtggga	cttctcaatg	ccagaggcat	caaggagtcc	atgcgcgcca	ncgtcgtcat	360
gacagtcgtg	gaagtcaccg	ggctcgtcct	cgttgctcgtc	ctcgcgctcg	tgccaggcag	420

<210> 885

<211> 1696

<212> DNA

<213> Homo sapiens

<400> 885

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gcagccaggc	catggagctc	tctgatgtca	ccctcattga	gggtgtgggt	aatgaggtga	180
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gccacagctg	ctgctccgt	agtcctcagg	ctgtaagcaa	gagacagcac	tggcccttgg	1560
ccagcgtcct	accctgcccc	actccaagga	ctgggtatgg	attgctgggc	cctaggtctt	1620
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ctgcaaaaaa	aaaaaa					1696

<210> 886
 <211> 1410
 <212> DNA
 <213> Homo sapiens

<400> 886						
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aactaatagc	cctcttatgt	ggtaaagagt	tcatttttaa	tgacagaagag	tttcattaaa	960
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tcagtcaagg	catagagact	tatttgtttt	catgtcttca	gattttgtgc	ctagatacct	1140
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<210> 887
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 887						
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gctatgtaca	gccataggat	tgctacaat	gtttggttat	attatttgtg	gtgtacttct	180
gggaccttca	ggactaaata	gtattaagg	aagaacaaaa	ttggattgtt	ttggtatctg	240
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agataccagc	ttcgtataaa	ccatttcaaa	gatgtccttt	caggtgtcac	gggaagtctc	360
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<210> 888
 <211> 887
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(887)
 <223> n = a,t,c or g

<400> 888
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 atagggtcaag taagtaaata gagatttaaa aaattatgaa cacaaaggaa gtaacagcct 180
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 cctttaagct gatcctaagg aagttatctt ttgtatacct tcagagaggg gataacatcc 420
 caaagatatt agtgttcaca gaggatggat atttcctacg agcctggaat tatacagttg 480
 acacacctca tgggtatatt gcagccagta ctctatatga acaatccgtc tggatcacgg 540
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 aaaatgggac agggcctgct aagttcaaca tacctcacag tgttacactt gattcagctg 840
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<210> 889
 <211> 1871
 <212> DNA
 <213> Homo sapiens

<400> 889
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aatttattga	aagtgatcgc	tttgcaagga	tgtctaagct	aatcccgta	cagaaaggaa	1860
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<210> 890

<211> 379

<212> DNA

<213> Homo sapiens

<400> 890	
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tcccaactgg	
acacaggcac	
agagttccct	
gccctggata	
tcaagctggg	
cacagccaga	
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tacagcaggc	
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cgggcacagc	
catgaatctg	
actacagttg	
ggacaaccaa	
gccagggatg	
240	
gtcatggatt	
tgatagcctc	
agaaccagac	
aagctgggca	
aagccatggc	
tacaagaagc	
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acagccaaac	
cagatatgac	
cacagagggg	
atagccatgg	
attcagcaac	
atcagaccca	
360	
gtcaagccgg	
acatgtatt	
379	

<210> 891

<211> 397

<212> DNA

<213> Homo sapiens

<400> 891	
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catgcgtgtg	
tacggcacgt	
gcacgctcgt	
gctcatggcc	
ctgggtggtct	
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caagtatgtc	
aacaagctgg	
cgctggtctt	
cctggcctgc	
gtcgtgctgt	
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ccatcctggc	
catctatgcc	
ggcgtcatca	
agtctgcctt	
cgaccccccg	
gacatcccgg	
180	
tctgcctcct	
ggggaaccgc	
acgctgtcac	
ggcgagctt	
cgatgcctgc	
gtcaaggcct	
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acggcatcca	
caacaactca	
gccacctccg	
cgctctgggg	
cctcttctgc	
aacggctccc	
300	
agcccagcgc	
cgctgtgac	
gagtacttca	
tccagaacaa	
cgtcaccgaa	
attcagggca	
360	
tcccggggcg	
ggccagtgg	
gtcttcctgg	
agaaccg	
397	

<210> 892

<211> 398

<212> DNA

<213> Homo sapiens

<400> 892	
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tccttgcctc	
tggtcattgc	
tgacctgctc	
ttctgccggg	
acttcacgg	
60	
tcagagcccc	
cggaggagca	
ctgtggactc	
ggcagaggac	
gtccactccc	
tggacagctg	
120	
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tgggaggttg	
gtgtgggctt	
cgctcactcc	
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actacatcca	
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cggatggagc	
tgctgaaact	
gctgtctgaca	
tgcttctccg	
aggccatgta	
240	

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cctgccccca gctccggaaa gtggcagcac caacccatgg gttcagttct tttgttccac    300
ggagaacaga catgccctgc ccctcttcac ctccctcctc aacaccgtgt gtgcctatga    360
ccctgtggaa tacgggatcc cctacaacca cctgtatt                                398

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<210> 893
<211> 397
<212> DNA
<213> Homo sapiens

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<400> 893
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agctggacaa gatgctggac ccccaggtgt ggcgggaggc agctaccag gtcttctctg    180
ccttgggcct gggctttggt ggtgtcattg ccttctccag ctacaataag caggacaaca    240
actgccactt cgatgccgcc ctggtgtcct tcatcaactt cttcacgtca gtgttgggcca    300
ccctcgtggt gtttgcgtgt ctgggcttca aggccaacat catgaatgag aagtgtgtgg    360
tcgagaatgc tgagaaaatc ctagggtacc gtgtatt                                397

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<210> 894
<211> 380
<212> DNA
<213> Homo sapiens

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<400> 894
cggccaccct gccactcact ctcatcgtca tccttgagaa catcgctgtg gcctggattt    60
atggaaccaa gaagtcatg caggagctga cggagatgct gggcttccgc ccctaccgct    120
tctattttcta catgtggaag ttcgtgtctc ctctatgcat ggctgtgctc accacagcca    180
gcacatccca gctgggggtc acgcccccg gctacagcgc ctggatcaag gaggaggctg    240
ccgagcgcta cctgtatttc cccaactggg ccatggcacc cctgatcacc ctcatcgtcg    300
tggcgacgct gccatccct gtggtgttcg tcctgcggca cttccaccta atctgtgatg    360
gctccaacac cccatgtatt                                380

```

```

<210> 895
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = a,t,c or g

```

```

<400> 895
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atgccatggc tggtagcggg ctccctttca ggttcctggc tcacgtcagc tcctacacag    180
agacaccagt ggtggcctgc atcgtgtcgg gggtcctggc agcgtcctc gcactgttgg    240
tcagcttgag agacctgata gagatgatgt ctatcgccac gctcctggcc tacaccttgg    300
tctctgtctg tgtcttgcct cttegcacac accctgagag tgacattgat ggttttgtca    360
agttcttgtc tgaggagcac acgtgtagt                                389

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<210> 896
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 896
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 caaatgggccc aaagatgggc ctctgatga tgattctagg ccaaattattc ctgaatggca 180
 accaagccaa ggaggctgag atttgggaaa tgctctggag gatgggggtg cagcgggaaa 240
 ggaggctttc ctttttggg aaccctaaaga gacttctgtc tgtggagttt gtatggcagc 300
 gttacttaga ctacaggcca gtaactgact gtaaacctgt ggagtatgag tttttctggg 360
 gcccaagatc ccacctagaa accaccaaga tgaaaattct gaagttcatg gcgaa 415

<210> 897
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 897
 aagctcggag ctccagggaa ctggagatca tcctcaacca tcgagatgac cacagtgaag 60
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 agaaagagtt tggtgctcag cccaactgcc aacagttgct tgccaccctg tggatatgatg 180
 gcttccctgg atggcgccgg aaacactggg tagtcaagct totaacctgc atgaccattg 240
 ggttcctgtt tcccatgctg tctatagcct acctgatctc acccaggagc aaccttgggc 300
 tggtcatcaa gaaacctttt atcaagttta tctgccacac agcatcctat ttgaccttcc 360
 tctctatgct tctcctggct tctcagcaca ttgtcaggac agaccttcac gtacaggggc 420
 cctgtatt 428

<210> 898
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = a,t,c or g

<400> 898
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 caatgccatg ctacagttag gcccttctt atattggaca tttctggctg cctttgaagg 180
 gacagtgttc ttctttggga cttactttct ttttcagact gcacccctag aagaaaatgg 240
 aaaggtatac ggaaactgga cttttggaac cattgttttt acagtcttag tattcactgt 300
 aacctgaag cttgccttgg ataccgatt ctggacgtgg ataaatcact ttgtgatttg 360
 gggttcttta gccttctatg tatttttctc attcttctgg ggaggaatta tttggccttt 420
 tctcaagcaa cagagaatgg cgaa 444

<210> 899
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 899
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 tctccagcaa caggtcttaa acagtgggtg gaagctgtac agggataccc aggatgggga 120
 agcctttcaa ggtgaacaga atgatttcaa ctccagccaa ggtgggaaag acttttgcca 180
 ccaacatggg ctgtttgagc accaaaaaac ccataatggg gagaggcctt atgagttcag 240
 tgaatgtggg gaattgttta ggtacaactc caaccttatt aaatatcagc aaaatcatgc 300
 tggagaaagg ccttatgagg gcactgaata tggaaagacc tttattagaa agtccaacct 360
 agttcagcac cagaaaattc acagtgaagg ctttctttca aaaaggctctg accccattga 420
 acatcaggag tgtatt 436

<210> 900
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (466)
 <223> n = a,t,c or g

<400> 900
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 gccctggctg ctttcccttc ctactgccct ggaatgggtg ttgctcttaa gatgtatccc 420
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<210> 901
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 901
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 tgatgtctta ggagccccct ggaattggct gtacttcac cccctctca tcattggagc 180
 cttctttgtt cccaccctag tcctgggagt gctttccggg gatthttgcca aagagagaga 240
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 gctgaatggc taccgtgtct ggatagccaa agcagaggaa gtcatgctcg ctgaagaaaa 360
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<210> 902
 <211> 1334
 <212> DNA
 <213> Homo sapiens

<400> 902
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 tgttaaaaaa aaaa 1334

<210> 903
 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 903
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 agagccgata cactcaagcc aagctgagca tgcacacgaa a 701

<210> 904
 <211> 546
 <212> DNA

<213> Homo sapiens

<400> 904

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aacttcttcg	gctgtctcac	tttccaggca	ccgttctctg	cttgggcgct	catgggcttc	180
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gctgca						546

<210> 905

<211> 2642

<212> DNA

<213> Homo sapiens

<400> 905

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gttgctcaag	gcacgttttg	ggagtgcagc	tcggaggcag	aggtgcagtc	ctggatgcgc	180
tacaacatct	ttctcctcct	ggaggtgggc	acgttcaatg	ctttggtgga	gcttctgaac	240
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<211> 2053

<212> DNA

<213> Homo sapiens

<400> 906

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 <213> Homo sapiens

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1691

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<211> 737

<212> DNA

<213> Homo sapiens

<400> 909

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<212> DNA

<213> Homo sapiens

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<210> 911
 <211> 1219
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n = a,t,c or g

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<210> 912
 <211> 814
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)... (814)
 <223> n = a,t,c or g

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<210> 913
 <211> 687
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(687)
 <223> n = a,t,c or g

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aaaattacat atttaccat gtggttatca tttccaaagc tcttcattcc tttgtctata 180
ttccttgtgt ttttgcttat ggcgaattct tttaggattt ttaagtcaaa aaatatcttt 240
atctcccttt tgttttgga tgatactttt gctgggtgta tatttotaac ttgacagttt 300
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aagatttttc tttatatcac tggntttggg cgcgttggat atgatgtgcc ttgatagatg 480
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687

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<210> 914
 <211> 620
 <212> DNA
 <213> Homo sapiens

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<400> 914
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ccacactagc atcataagcc

620

<210> 915

<211> 788

<212> DNA

<213> Homo sapiens

<400> 915

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ctctgaaaca tgctaacatg cttatacaat acttgctgtc ctgccttctc ctctcagctg      180
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cttggttccc acaggccctc cgtcattgag ttcaattttt cagtctcgtg gtctctgtgc      360
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ctcgtagagg cacaattggc tgctgggctc ctggccgggt tggctcattt ggggggggaa      720
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<210> 916

<211> 758

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (758)

<223> n = a,t,c or g

<400> 916

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taactcaaat gtctaacaac agatgaacaa ataaactgga aaaggcatac gatggaaccc      180
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<210> 917

<211> 2709

<212> DNA

<213> Homo sapiens

<400> 917

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<210> 918

<211> 1327

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> (1)...(1327)
 <223> n = a,t,c or g

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<210> 919
 <211> 1463
 <212> DNA
 <213> Homo sapiens

<400> 919
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<210> 920

<211> 761

<212> DNA

<213> Homo sapiens

<400> 920

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<210> 921

<211> 1225

<212> DNA

<213> Homo sapiens

<400> 921

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<210> 922
 <211> 1589
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1) ... (1589)
 <223> n = a,t,c or g

<400> 922
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<210> 923
 <211> 1071
 <212> DNA
 <213> Homo sapiens

<400> 923
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<210> 924

<211> 1758

<212> DNA

<213> Homo sapiens

<400> 924

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<210> 925

<211> 854

<212> DNA

<213> Homo sapiens

<400> 925

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<210> 926

<211> 2422

<212> DNA

<213> Homo sapiens

<400> 926

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<210> 927
<211> 415
<212> DNA
<213> Homo sapiens

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<220>
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<223> n = a,t,c or g

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<210> 928
<211> 1503
<212> DNA
<213> Homo sapiens

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<220>
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<223> n = a,t,c or g

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<210> 929

<211> 834

<212> DNA

<213> Homo sapiens

<400> 929

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<210> 930

<211> 1434

<212> DNA

<213> Homo sapiens

<400> 930

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<210> 931

<211> 410

<212> DNA

<213> Homo sapiens

<400> 931

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<210> 932

<211> 2361

<212> DNA

<213> Homo sapiens

<400> 932

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<210> 933
<211> 680
<212> DNA
<213> Homo sapiens

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<223> n = a,t,c or g

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<210> 934
<211> 728
<212> DNA
<213> Homo sapiens

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<400> 934
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<210> 935

<211> 883

<212> DNA

<213> Homo sapiens

<400> 935

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cgatctgccc	acctctgcct	cccaaagtgc	tgggattaaa	ggcataagcc	accatgtcca	360
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<210> 936

<211> 952

<212> DNA

<213> Homo sapiens

<400> 936

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<210> 937

<211> 1691

<212> DNA

<213> Homo sapiens

<400> 937

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<210> 938

<211> 1272

<212> DNA

<213> Homo sapiens

<400> 938

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<210> 939

<211> 711

<212> DNA

<213> Homo sapiens

<400> 939

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<210> 940

<211> 538

<212> DNA

<213> Homo sapiens

<400> 940

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<210> 941
 <211> 1510
 <212> DNA
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<400> 941
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<210> 942
 <211> 2226
 <212> DNA
 <213> Homo sapiens

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<210> 943

<211> 1026

<212> DNA

<213> Homo sapiens

<400> 943

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<211> 807

<212> DNA

<213> Homo sapiens

<400> 944

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<210> 945

<211> 2127

<212> DNA

<213> Homo sapiens

<400> 945

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<210> 946
 <211> 1759
 <212> DNA
 <213> Homo sapiens

<400> 946
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 <211> 1033
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)... (1033)
 <223> n = a,t,c or g

<400> 947
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gaaaaaaaaa aaa 1033

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<210> 948
 <211> 401
 <212> DNA
 <213> Homo sapiens

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<400> 948
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gctggtctgc tcgggccacg acggattcct gggctttcat ggggtggggc gcccggtgctc 360
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<210> 949
 <211> 432
 <212> DNA
 <213> Homo sapiens

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<400> 949
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ggcaaaggcc aggatcacca ggaggcctga gaagtaggtc atgttctccc caatgcactt 360
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ggtcgcgatg aa 432

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<210> 950
 <211> 450
 <212> DNA
 <213> Homo sapiens


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<400> 950
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<210> 951
<211> 1321
<212> DNA
<213> Homo sapiens

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<222> (1)...(1321)
<223> n = a,t,c or g

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 956

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<212> DNA

<213> Homo sapiens

<400> 957

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<212> DNA

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<210> 961
 <211> 679
 <212> DNA
 <213> Homo sapiens

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<400> 961
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<210> 962
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1) ... (782)
 <223> n = a,t,c or g

<400> 962

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<210> 963
 <211> 1734
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (1734)
 <223> n = a,t,c or g

<400> 963

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<210> 964

<211> 1098

<212> DNA

<213> Homo sapiens

<400> 964

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<210> 965

<211> 422

<212> DNA

<213> Homo sapiens

<400> 965

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<210> 966

<211> 617

<212> DNA

<213> Homo sapiens

<400> 966

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<210> 967

<211> 1446

<212> DNA

<213> Homo sapiens

<400> 967

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<210> 968

<211> 1495

<212> DNA

<213> Homo sapiens

<400> 968

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<210> 969

<211> 999

<212> DNA

<213> Homo sapiens

<400> 969

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<212> DNA

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<400> 970

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<212> DNA

<213> Homo sapiens

<400> 972

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<212> DNA

<213> Homo sapiens

<400> 975

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<212> DNA

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<211> 1576

<212> DNA

<213> Homo sapiens

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<211> 1694

<212> DNA

<213> Homo sapiens

<400> 978

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<211> 2203

<212> DNA

<213> Homo sapiens

<400> 979

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 <211> 396
 <212> DNA
 <213> Homo sapiens

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 <211> 2172
 <212> DNA
 <213> Homo sapiens

<400> 982
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<210> 983

<211> 377

<212> DNA

<213> Homo sapiens

<400> 983

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<210> 984

<211> 1813

<212> DNA

<213> Homo sapiens

<400> 984

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<210> 985

<211> 379

<212> DNA

<213> Homo sapiens

<400> 985

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<210> 986

<211> 876

<212> DNA

<213> Homo sapiens

<400> 986

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<210> 987

<211> 1884

<212> DNA

<213> Homo sapiens

<400> 987

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<210> 988

<211> 935

<212> DNA

<213> Homo sapiens

<400> 988

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<210> 989

<211> 2528

<212> DNA

<213> Homo sapiens

<400> 989

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<210> 990
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 990						
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<210> 991
 <211> 335
 <212> DNA
 <213> Homo sapiens

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ccatcctgcc	acctcatgct	ctaaagaagc	tggaaaccaca	ggtgagtgc	tgaccacac	180
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<210> 992
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 992						
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<210> 993

<211> 1038

<212> DNA

<213> Homo. sapiens

<400> 993

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tattttaaaa	actgtggtca	tgggaggtc	agatgggtca	taacacatca	ggttggtcat	540
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cagtatactt	ataataacca	taaaataata	ggactgtagc	aaccttttgt	cctatctcag	660
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<210> 994

<211> 1459

<212> DNA

<213> Homo sapiens

<400> 994

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<210> 995

<211> 650

<212> DNA

<213> Homo sapiens

<400> 995

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<210> 996

<211> 742

<212> DNA

<213> Homo sapiens

<400> 996

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<210> 997

<211> 745
 <212> DNA
 <213> Homo sapiens

<400> 997
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<210> 998
 <211> 1040
 <212> DNA
 <213> Homo sapiens

<400> 998
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<210> 999
 <211> 2528
 <212> DNA
 <213> Homo sapiens

<400> 999
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<211> 399

<212> DNA

<213> Homo sapiens

<400> 1000

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 <211> 1058
 <212> DNA
 <213> Homo sapiens

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<210> 1002
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 1002
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 ataaggggct agaggaagaa tgggtccagaa atggctttga ggaatgatga aaacaccaac 540
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<210> 1003
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 1003
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acgcgtgggg	tcgagcagcg	ctgccatgct	tttctggggc	gtcagcatcc	tggagatctg	360
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<210> 1004

<211> 666

<212> DNA

<213> Homo sapiens

<400> 1004

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<210> 1005

<211> 1968

<212> DNA

<213> Homo sapiens

<400> 1005

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<210> 1006
 <211> 380
 <212> DNA
 <213> Homo sapiens

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<210> 1007
 <211> 752
 <212> DNA
 <213> Homo sapiens

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<210> 1008
 <211> 1145
 <212> DNA
 <213> Homo sapiens

<400> 1008
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 aaaaatgccca tattagaaac tgatgattta aaagtaacaa caatgaatcc attacatgtg 180
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<210> 1009
 <211> 737
 <212> DNA
 <213> Homo sapiens

<400> 1009
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<210> 1010
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1010
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 Arg Ile Ser Asp Phe Gly Glu Cys Cys Ala Pro Tyr Leu Pro
 20 25 30

Gly Gly Leu His Ser Ile Arg Thr Gly Met Arg Glu Arg Tyr His Ile
 35 40 45
 Gln Gly Ser Val Gly His Asp Trp Ala Ala Leu Thr Phe Trp Leu Pro
 50 55 60
 Cys Ala Leu Cys Gln Met Ala Arg Glu Leu Lys Ile Arg Glu *
 65 70 75 78

<210> 1011
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1011
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 Ser Gly Ser Leu Ser Gly Lys Ser Ser Thr Cys Ala Pro Ala Pro Ser
 20 25 30
 Ala Pro Gly Ser Arg Ser Ser Gly Pro Arg Arg Asn His His Trp Ile
 35 40 45
 Ser Arg Tyr Thr Glu Ala Glu Pro Leu Trp Lys Ala Gln Asp Ile Ser
 50 55 60
 Thr Phe Cys Pro Ser Val Ala Val Thr Phe Arg Gly Asn Ser Val Asn
 65 70 75 80
 Phe Ala *
 82

<210> 1012
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 1012
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 Ile Cys Leu Ala Val Ala Cys Ala Phe Arg Tyr Asn Gly Leu Ser Phe
 20 25 30
 Val Tyr Leu Ile Tyr Leu Leu Leu Ile Pro Leu Phe Ser Glu Pro Thr
 35 40 45
 Lys Thr Thr Met Gln Gly His Thr Gly Arg Leu Leu Lys Ser Leu Cys
 50 55 60
 Phe Ile Ser Leu Ser Phe Leu Leu Leu His Ile Ile Phe His Ile Thr
 65 70 75 80
 Leu Val Ser Leu Glu Ala Gln His Arg Ile Ala Pro Gly Tyr Asn Cys
 85 90 95
 Ser Thr Trp Glu Lys Thr Phe Arg Gln Ile Gly Phe Glu Ser Leu Lys
 100 105 110
 Gly Ala Asp Ala Gly Asn Gly Ile Arg Val Leu Val Pro Asp Ile Gly
 115 120 125
 Met Val Ile
 130 131

<210> 1013
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 1013
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 20 25 30
 Tyr Tyr Ser Leu Ala Ala Ser Thr Leu Gly Thr Phe Ala Leu Ser Ala
 35 40 45
 Leu Val Gly Glu Asp Gly Arg Leu Asp Met Val His Ile Gln Asn Ala
 50 55 60
 Ala Leu Ala Gly Gly Val Val Val Gly Thr Ser Ser Glu Met Met Leu
 65 70 75 80
 Thr Pro Phe Gly Ala Leu Ala Ala Gly Phe Leu Ala Gly Thr Val Ser
 85 90 95
 Thr Leu Gly Tyr Lys Phe Phe Thr Pro Ile Leu Glu Ser Lys Phe Lys
 100 105 110
 Val Gln Asp Thr Cys Gly Val His Asn Leu His Gly Met Pro Gly Val
 115 120 125
 Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu Ala Thr His Glu
 130 135 140
 Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu Ile Ala Glu Gly
 145 150 155 160
 Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu Phe Gly Leu Phe
 165 170 175
 Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu Gly Gly Ile Ile
 180 185 190
 Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp His Trp Val Ala
 195 200 205
 Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln Ile Leu Pro Tyr
 210 215 220
 His His Gln Gly Ser Cys *
 225 230

<210> 1014
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1014
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 Val Ile Tyr Cys Phe Ser Phe Asn Ser Leu Thr Thr Val Cys Arg Ala
 20 25 30
 Ala Val Val Phe Trp Arg Ser Ala Pro Asp Pro Gly Ala Leu Gly Phe
 35 40 45
 Phe Ser Ile Trp Lys Tyr His Gln Leu Arg Leu *
 50 55 59

<210> 1015

<211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1015
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 Leu Gly His Ile Phe Gly Asp Ile Tyr Pro Ser Ile Phe His Val Leu
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 Ile Leu Asn Leu Ile Ile Val Gly Ala Gly Val Ile Met Ala Cys Phe
 35 40 45
 Tyr Pro Asn Ile Gly Gly Ile Ile Arg Tyr Ser Gly Ala Ala Cys Gly
 50 55 60
 Leu Ala Phe Val Phe Ile Tyr Pro Ser Leu Ile Tyr Ile Ile Ser Leu
 65 70 75 80
 His Gln Glu Glu Arg Leu Thr Trp Pro Lys Leu Ile Phe His Val Phe
 85 90 95
 Ile Ile Ile Leu Gly Val Ala Asn Leu Ile Val Gln Phe Phe Met *
 100 105 110 111

<210> 1016
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1016
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 Cys Met Tyr Ile His Ala Cys Thr His Thr His Ile Ser His Thr Asp
 20 25 30
 Ile Asp Ile Lys Gln Phe Tyr Ala Gln Glu Tyr Gln Gly Gln Pro Lys
 35 40 45
 Asp Lys Thr Asn Arg Ser Val Ile Tyr Cys Val Phe Asn Phe Ser Thr
 50 55 60
 Tyr Phe Tyr *
 65 67

<210> 1017
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1017
 Met Arg Leu Leu Phe Ser Cys Arg Gly Arg Gly Met Phe Leu Phe Arg
 1 5 10 15
 Arg Arg Met Leu Pro Ser Arg Asp Arg Tyr Tyr Lys Asp Val Glu Leu
 20 25 30
 Ile Phe Asn Tyr Leu Gly Phe Leu Ile Val Ser Gly Leu Leu Asp Leu
 35 40 45
 Ile Phe *
 50

<210> 1018
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 1018
 Met Leu Arg Phe Tyr Leu Ile Ala Gly Gly Ile Pro Leu Ile Ile Cys
 1 5 10 15
 Gly Ile Thr Ala Ala Val Asn Ile His Asn Tyr Arg Asp His Ser Pro
 20 25 30
 Tyr Cys Trp Leu Val Trp Arg Pro Ser Leu Gly Ala Phe Tyr Ile Pro
 35 40 45
 Val Ala Leu Ile Leu Leu Ile Thr Trp Ile Tyr Phe Leu Cys Ala Gly
 50 55 60
 Leu Arg Leu Arg Gly Pro Leu Ala Gln Asn Pro Lys Ala Gly Asn Ser
 65 70 75 80
 Arg Ala Ser Leu Glu Ala Gly Glu Glu Leu Arg Gly Ser Thr Arg Leu
 85 90 95
 Arg Gly Ser Gly Pro Leu Leu Ser Asp Ser Gly Ser Leu Leu Ala Thr
 100 105 110
 Gly Ser Ala Arg Val Gly Thr Pro Gly Pro Pro Glu Asp Gly Asp
 115 120 125 127

<210> 1019
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1019
 Met Gly Ser Ser Arg Leu Ala Ala Leu Leu Leu Pro Leu Leu Leu Ile
 1 5 10 15
 Val Ile Asp Leu Ser Asp Ser Ala Gly Ile Gly Phe Arg His Leu Pro
 20 25 30
 His Trp Asn Thr Arg Cys Pro Leu Ala Ser His Thr Asp Asp Ser Phe
 35 40 45
 Thr Gly Ser Ser Ala Tyr Ile Pro Cys Arg Thr Trp Trp Ala Leu Phe
 50 55 60
 Ser Thr Lys Pro Trp Cys Val Arg Val Trp His Cys Ser Arg Cys Leu
 65 70 75 80
 Cys Gln His Leu Leu Ser Gly Gly Ser Gly Leu Gln Arg Gly Leu Phe
 85 90 95
 His Leu Leu Val Gln Lys Ser Lys Lys Ser Ser Thr Phe Lys Phe Tyr
 100 105 110
 Arg Arg His Lys Met Pro Ala Pro Ala Gln Arg Lys Leu Leu Pro Arg
 115 120 125
 Arg His Leu Ser Glu Lys Ser His His Ile Ser Ile Pro Ser Pro Asp
 130 135 140
 Ile Ser His Lys Gly Leu Arg Ser Lys Arg Thr Pro Pro Phe Gly Ser
 145 150 155 160
 Arg Asp Met Gly Lys Ala Phe Pro Lys Trp Asp Ser Pro Thr Pro Gly
 165 170 175
 Gly Asp Arg Pro Ser Ser Phe Glu Leu Leu Pro *
 180 185 187

<210> 1020
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1020
 Met Ile Leu Leu Cys Pro Gly Leu Thr Asp Leu Ser Val Phe Leu Phe
 1 5 10 15
 Ser Leu Thr Ile Gly His Phe Ser Arg Val Arg Gly Gln Thr Ile Thr
 20 25 30
 Ala Cys Pro Ser Ser Arg Ile Pro Ala Gly Phe Gln Asp Ile Val Gln
 35 40 45
 Gly Ser Ala Asn Ser Gly Pro Arg Ala Leu Ala Arg Cys Pro Cys Leu
 50 55 60 64
 *

<210> 1021
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1021
 Met Pro Gly Phe Lys Phe Cys Ser Ser Leu Arg Phe Leu Tyr Leu Ile
 1 5 10 15
 Asn Phe Pro Ile Gly Lys Phe Val Cys Leu Ala Ile Leu Leu Pro His
 20 25 30
 Phe Pro Leu Leu Ser Cys Cys Pro Leu Gln Asp His Leu Asp Phe Pro
 35 40 45
 Gly Lys Glu Ser Arg Tyr Ser Gly Ser Cys Trp Leu Pro Ser Tyr Ser
 50 55 60
 Leu Ser Val Ala Gly Ser Pro Leu Gly His Leu Pro Asn Thr Tyr Met
 65 70 75 80
 His Thr Pro Arg Thr Phe Ser Leu Leu Pro Ile Pro His Pro Ser Val
 85 90 95
 Asn Trp Asp Ser Phe Lys Pro Phe Ser Ile Arg Glu Ala Leu Ala Thr
 100 105 110
 Val Glu Ser Leu Gly Arg Gln Ala Phe Pro Asn Thr Pro Thr Thr Trp
 115 120 125
 Ala Phe Thr Leu His Leu Ser *
 130 135

<210> 1022
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 1022
 Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser

```

      1           5           10           15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
      20           25           30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
      35           40           45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
      50           55           60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
      65           70           75           80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
      85           90           95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
      100           105           110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
      115           120           125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
      130           135           140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
      145           150           155           160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165           170           175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180           185

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<210> 1023

<211> 186

<212> PRT

<213> Homo sapiens

<400> 1023

```

Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
      1           5           10           15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
      20           25           30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
      35           40           45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
      50           55           60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
      65           70           75           80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
      85           90           95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
      100           105           110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
      115           120           125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu
      130           135           140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
      145           150           155           160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165           170           175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180           185

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<210> 1024
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1024
 Met Val Cys Leu Val Gly Phe Leu Glu Leu Ile Leu Tyr Val Tyr Arg
 1 5 10 15
 Phe Arg Gln Ser Leu Ala Leu Ser His Arg Met Glu Cys Asn Gly Thr
 20 25 30
 Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser Pro
 35 40 45
 Thr Ser Ala Ser Arg Val Ala Gly Ile Thr Gly Thr Arg His His Ala
 50 55 60
 Arg Val Ile Phe Phe Val Phe Leu *
 65 70 72

<210> 1025
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1025
 Met Phe Tyr Lys Leu Val Leu Trp Phe Trp Trp Cys Leu Thr Thr Arg
 1 5 10 15
 Gly Asn Leu Leu Cys Leu Ala Cys Ile Phe Ala Thr Leu Ser Leu Glu
 20 25 30
 Ser Lys Asn Phe Pro Thr Leu Gln Ala Thr Leu Leu Ile Arg Gln His
 35 40 45
 Phe Ile Tyr Lys Thr Phe Val Trp Pro Thr Val Cys His Asp Leu Cys
 50 55 60
 Ser Leu *
 65 66

<210> 1026
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1026
 Met Gln Ala Gly Ser Ala Leu Trp His Leu Trp Ala Glu Gly Arg Cys
 1 5 10 15
 Trp Leu Trp Ala Gly Phe Gly Asn Phe Gly Glu Arg Pro His Leu Lys
 20 25 30
 Thr His Thr Asp Tyr Pro Gly Pro Thr Glu Ala Ser Cys Ile Gln Pro
 35 40 45
 Tyr Phe Pro Ser Arg Ile Met Leu Ser Ala Thr Pro Leu Glu Gly Tyr
 50 55 60
 Val Phe *
 65 66

<210> 1027
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1027
 Met Leu Cys Val Trp Ile Lys Val Leu Phe Leu Leu Ile Ala Glu Ser
 1 5 10 15
 Asn Thr Trp Leu Leu Ser Pro Arg Thr Lys Asp Val Leu Lys Ser Glu
 20 25 30
 Pro Thr Gln Ile Tyr Pro His Thr Ser Arg Lys Gln Phe Lys Lys Pro
 35 40 45
 Gln Glu Ser Lys His Ser Phe Ile Gly Tyr *
 50 55 58

<210> 1028
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1028
 Met Phe Gln Val Gly Gly Arg Val Phe Lys Arg Cys Ile Phe Ser Phe
 1 5 10 15
 Cys Cys Cys His Phe Ile Gly Leu Gly Leu Gly Val Cys Phe Ser Ser
 20 25 30
 Leu Asn Gly Thr Arg Met Phe Ala Asp Ser Tyr Ser Val *
 35 40 45

<210> 1029
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1029
 Met Ala Phe Arg Thr Cys Phe Leu Ser Cys Leu Thr Val Val Lys Val
 1 5 10 15
 Cys Ser Lys Ala Ser Pro Ser Phe Ser Thr Gln Gln Pro Cys Val Thr
 20 25 30
 Thr Lys Val Glu Leu Ser Leu Ile Cys Cys Cys Phe Ser Ser Lys Leu
 35 40 45
 Pro Asn Lys Ala Lys Asn Thr Leu Val Phe Tyr Ser *
 50 55 60

<210> 1030
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1030

```

Met Trp Leu Arg Lys Cys Leu Leu Gly Leu Ser Leu Ile Ser Phe Arg
 1          5          10          15
Val Cys Gly Pro Leu Ile Ala Leu Trp Val Val Ser Asp Ser Ser Ile
          20          25          30
Arg Arg Leu Asn Pro Leu Val Val Phe Leu Cys Val Cys Ala Glu Leu
          35          40          45
Gly *
49

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<210> 1031

<211> 152

<212> PRT

<213> Homo sapiens

<400> 1031

```

Met Ile Val Tyr Trp Val Leu Met Ser Asn Phe Leu Phe Asn Thr Gly
 1          5          10          15
Lys Phe Ile Phe Asn Phe Ile His His Ile Asn Asp Thr Asp Thr Ile
          20          25          30
Leu Ser Thr Asn Asn Ser Asn Pro Val Ile Cys Pro Ser Ala Gly Ser
          35          40          45
Gly Gly His Pro Asp Asn Ser Ser Met Ile Phe Tyr Ala Asn Asp Thr
          50          55          60
Gly Ala Gln Gln Phe Glu Lys Trp Trp Asp Lys Ser Arg Thr Val Pro
          65          70          75          80
Phe Tyr Leu Val Gly Leu Leu Leu Pro Leu Leu Asn Phe Lys Ser Pro
          85          90          95
Ser Phe Phe Ser Lys Phe Asn Ile Leu Gly Ile Asn Asn Gln Val Ile
          100          105          110
Leu Pro Gly Val Thr Glu Met Pro Gly Tyr Cys Pro Phe Leu Leu Pro
          115          120          125
Val Ser Thr Glu Cys Cys Ala Val Ala Thr Ser Tyr Thr Cys Phe Glu
          130          135          140
Glu Lys Asn Ile Gly Gln Cys Cys
145          150          152

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<210> 1032

<211> 1764

<212> PRT

<213> Homo sapiens

<400> 1032

```

Met Pro Ser Arg Leu Lys Ala Leu Gly Thr Leu Val Ser His Val Thr
 1          5          10          15
Leu Arg Leu Leu Lys Pro Glu Cys Val Leu Asp Lys Ser Trp Cys Gln
          20          25          30
Glu Glu Leu Ser Val Ala Val Lys Arg Ala Val Met Leu Leu His Thr
          35          40          45
His Thr Ile Thr Ser Arg Val Gly Lys Gly Glu Pro Gly Ala Ala Pro
          50          55          60
Leu Ser Ala Pro Ala Phe Ser Leu Val Phe Pro Phe Leu Lys Met Val

```

65					70					75					80
Leu	Thr	Glu	Met	Pro	His	His	Ser	Glu	Glu	Glu	Glu	Glu	Trp	Met	Ala
				85					90					95	
Gln	Ile	Leu	Gln	Ile	Leu	Thr	Val	Gln	Ala	Gln	Leu	Arg	Ala	Ser	Pro
			100					105					110		
Asn	Thr	Pro	Pro	Gly	Arg	Val	Asp	Glu	Asn	Gly	Pro	Glu	Leu	Leu	Pro
		115					120					125			
Arg	Val	Ala	Met	Leu	Arg	Leu	Leu	Thr	Trp	Val	Ile	Gly	Thr	Gly	Ser
	130					135					140				
Pro	Arg	Leu	Gln	Val	Leu	Ala	Ser	Asp	Thr	Leu	Thr	Thr	Leu	Cys	Ala
	145				150					155					160
Ser	Ser	Ser	Gly	Asp	Asp	Gly	Cys	Ala	Phe	Ala	Glu	Gln	Glu	Glu	Val
			165						170					175	
Asp	Val	Leu	Leu	Cys	Ala	Leu	Gln	Ser	Pro	Cys	Ala	Ser	Val	Arg	Glu
			180					185					190		
Thr	Val	Leu	Arg	Gly	Leu	Met		Glu	Leu	His	Met	Val	Leu	Pro	Ala
	195						200						205		Pro
Asp	Thr	Asp	Glu	Lys	Asn	Gly	Leu	Asn	Leu	Leu	Arg	Arg	Leu	Trp	Val
	210					215					220				
Val	Lys	Phe	Asp	Lys	Glu	Glu	Glu	Ile	Arg	Lys	Leu	Ala	Glu	Arg	Leu
	225				230					235					240
Trp	Ser	Met	Met	Gly	Leu	Asp	Leu	Gln	Pro	Asp	Leu	Cys	Ser	Leu	Leu
				245					250					255	
Ile	Asp	Asp	Val	Ile	Tyr	His	Glu	Ala	Ala	Val	Arg	Gln	Ala	Gly	Ala
			260				265						270		
Glu	Ala	Leu	Ser	Gln	Ala	Val	Ala	Arg	Tyr	Gln	Arg	Gln	Ala	Ala	Glu
		275					280					285			
Val	Met	Gly	Arg	Leu	Met	Glu	Ile	Tyr	Gln	Glu	Lys	Leu	Tyr	Arg	Pro
	290					295					300				
Pro	Pro	Val	Leu	Asp	Ala	Leu	Gly	Arg	Val	Ile	Ser	Glu	Ser	Pro	Pro
	305				310					315					320
Asp	Gln	Trp	Glu	Ala	Arg	Cys	Gly	Leu	Ala	Leu	Ala	Leu	Asn	Lys	Leu
			325						330					335	
Ser	Gln	Tyr	Leu	Asp	Ser	Ser	Gln	Val	Lys	Pro	Leu	Phe	Gln	Phe	Phe
		340					345						350		
Val	Pro	Asp	Ala	Leu	Asn	Asp	Arg	His	Pro	Asp	Val	Arg	Lys	Cys	Met
	355						360					365			
Leu	Asp	Ala	Ala	Leu	Ala	Thr	Leu	Asn	Thr	His	Gly	Lys	Glu	Asn	Val
	370					375					380				
Asn	Ser	Leu	Leu	Pro	Val	Phe	Glu	Glu	Phe	Leu	Lys	Asn	Ala	Pro	Asn
	385				390					395					400
Asp	Ala	Ser	Tyr	Asp	Ala	Val	Arg	Gln	Ser	Val	Val	Val	Leu	Met	Gly
			405						410					415	
Ser	Leu	Ala	Lys	His	Leu	Asp	Lys	Ser	Asp	Pro	Lys	Val	Lys	Pro	Ile
			420				425						430		
Val	Ala	Lys	Leu	Ile	Ala	Ala	Leu	Ser	Thr	Pro	Ser	Gln	Gln	Val	Gln
		435					440					445			
Glu	Ser	Val	Ala	Ser	Cys	Leu	Pro	Pro	Leu	Val	Pro	Ala	Ile	Lys	Glu
	450					455					460				
Asp	Ala	Gly	Gly	Met	Ile	Gln	Arg	Leu	Met	Gln	Gln	Leu	Leu	Glu	Ser
	465				470					475					480
Asp	Lys	Tyr	Ala	Glu	Arg	Lys	Gly	Ala	Ala	Tyr	Gly	Leu	Ala	Gly	Leu
			485						490					495	
Val	Lys	Gly	Leu	Gly	Ile	Leu	Ser	Leu	Lys	Gln	Gln	Glu	Met	Met	Ala
		500						505					510		
Ala	Leu	Thr	Asp	Ala	Ile	Gln	Asp	Lys	Lys	Asn	Phe	Arg	Arg	Arg	Glu
	515						520					525			
Gly	Ala	Leu	Phe	Ala	Phe	Glu	Met	Leu	Cys	Thr	Met	Leu	Gly	Lys	Leu
	530					535					540				

Phe Glu Pro Tyr Val Val His Val Leu Pro His Leu Leu Leu Cys Phe
 545 550 555 560
 Gly Asp Gly Asn Gln Tyr Val Arg Glu Ala Ala Asp Asp Cys Ala Lys
 565 570 575
 Ala Val Met Ser Asn Leu Ser Ala His Gly Val Lys Leu Val Leu Pro
 580 585 590
 Ser Leu Leu Ala Ala Leu Glu Glu Glu Ser Trp Arg Thr Lys Ala Gly
 595 600 605
 Ser Val Glu Leu Leu Gly Ala Met Ala Tyr Cys Ala Pro Lys Gln Leu
 610 615 620
 Ser Ser Cys Leu Pro Asn Ile Val Pro Lys Leu Thr Glu Val Leu Thr
 625 630 635 640
 Asp Ser His Val Lys Val Gln Lys Ala Gly Gln Gln Ala Leu Arg Gln
 645 650 655
 Ile Gly Ser Val Ile Arg Asn Pro Glu Ile Leu Ala Ile Ala Pro Val
 660 665 670
 Leu Leu Asp Ala Leu Thr Asp Pro Ser Arg Lys Thr Gln Lys Cys Leu
 675 680 685
 Gln Thr Leu Leu Asp Thr Lys Phe Val His Phe Ile Asp Ala Pro Ser
 690 695 700
 Leu Ala Leu Ile Met Pro Ile Val Gln Arg Ala Phe Gln Asp Arg Ser
 705 710 715 720
 Thr Asp Thr Arg Lys Met Ala Ala Gln Ile Ile Gly Asn Met Tyr Ser
 725 730 735
 Leu Thr Asp Gln Lys Asp Leu Ala Pro Tyr Leu Pro Ser Val Thr Pro
 740 745 750
 Gly Leu Lys Ala Ser Leu Leu Asp Pro Val Pro Glu Val Arg Thr Val
 755 760 765
 Ser Ala Lys Ala Leu Gly Ala Met Val Lys Gly Met Gly Glu Ser Cys
 770 775 780
 Phe Glu Asp Leu Leu Pro Trp Leu Met Glu Thr Leu Thr Tyr Glu Gln
 785 790 795 800
 Ser Ser Val Asp Arg Ser Gly Ala Ala Gln Gly Leu Ala Glu Val Met
 805 810 815
 Ala Gly Leu Gly Val Glu Lys Leu Glu Lys Leu Met Pro Glu Ile Val
 820 825 830
 Ala Thr Ala Ser Lys Val Asp Ile Ala Pro His Val Arg Asp Gly Tyr
 835 840 845
 Ile Met Met Phe Asn Tyr Leu Pro Ile Thr Phe Gly Asp Lys Phe Thr
 850 855 860
 Pro Tyr Val Gly Pro Ile Ile Pro Cys Ile Leu Lys Ala Leu Ala Asp
 865 870 875 880
 Glu Asn Glu Phe Val Arg Asp Thr Ala Leu Arg Ala Gly Gln Arg Val
 885 890 895
 Ile Ser Met Tyr Ala Glu Thr Ala Ile Ala Leu Leu Leu Pro Gln Leu
 900 905 910
 Glu Gln Gly Leu Phe Asp Asp Leu Trp Arg Ile Arg Phe Ser Ser Val
 915 920 925
 Gln Leu Leu Gly Asp Leu Leu Phe His Ile Ser Gly Val Thr Gly Lys
 930 935 940
 Met Thr Thr Glu Thr Ala Ser Glu Asp Asp Asn Phe Gly Thr Ala Gln
 945 950 955 960
 Ser Asn Lys Ala Ile Ile Thr Ala Leu Gly Val Glu Arg Arg Asn Arg
 965 970 975
 Val Leu Ala Gly Leu Tyr Met Gly Arg Ser Asp Thr Gln Leu Val Val
 980 985 990
 Arg Gln Ala Ser Leu His Val Trp Lys Ile Val Val Ser Asn Thr Pro
 995 1000 1005
 Arg Thr Leu Arg Glu Ile Leu Pro Thr Leu Phe Gly Leu Leu Leu Gly

1010	1015	1020
Phe Leu Ala Ser Thr Cys Ala Asp Lys Arg Thr Ile Ala Ala Arg Thr		
1025	1030	1035
Leu Gly Asp Leu Val Arg Lys Leu Gly Glu Lys Ile Leu Pro Glu Ile		1040
1045	1050	1055
Ile Pro Ile Leu Glu Glu Gly Leu Arg Ser Gln Lys Ser Asp Glu Arg		
1060	1065	1070
Gln Gly Val Cys Ile Gly Leu Ser Glu Ile Met Lys Ser Thr Ser Arg		
1075	1080	1085
Asp Ala Val Leu Tyr Phe Ser Glu Ser Leu Val Pro Thr Ala Arg Lys		
1090	1095	1100
Ala Leu Cys Asp Pro Leu Glu Glu Val Arg Glu Ala Ala Ala Lys Thr		
1105	1110	1115
Phe Glu Gln Leu His Ser Thr Ile Gly His Gln Ala Leu Glu Asp Ile		1120
1125	1130	1135
Leu Pro Phe Leu Leu Lys Gln Leu Asp Asp Glu Glu Val Ser Glu Phe		
1140	1145	1150
Ala Leu Asp Gly Leu Lys Gln Val Met Ala Ile Lys Ser Arg Val Val		
1155	1160	1165
Leu Pro Tyr Leu Val Pro Lys Leu Thr Thr Pro Pro Val Asn Thr Arg		
1170	1175	1180
Val Leu Ala Phe Leu Ser Ser Val Ala Gly Asp Ala Leu Thr Arg His		
1185	1190	1195
Leu Gly Val Ile Leu Pro Ala Val Met Leu Ala Leu Lys Glu Lys Leu		1200
1205	1210	1215
Gly Thr Pro Asp Glu Gln Leu Glu Met Ala Asn Cys Gln Ala Val Ile		
1220	1225	1230
Leu Ser Val Glu Asp Asp Thr Gly His Arg Ile Ile Ile Glu Asp Leu		
1235	1240	1245
Leu Glu Ala Thr Arg Ser Pro Glu Val Gly Met Arg Gln Ala Ala Ala		
1250	1255	1260
Ile Ile Leu Asn Ile Tyr Cys Ser Arg Ser Lys Ala Asp Tyr Thr Ser		
1265	1270	1275
His Leu Arg Ser Leu Val Ser Gly Leu Ile Arg Leu Phe Asn Asp Ser		1280
1285	1290	1295
Ser Pro Val Val Leu Glu Glu Ser Trp Asp Ala Leu Asn Ala Ile Thr		
1300	1305	1310
Lys Lys Leu Asp Ala Gly Asn Gln Leu Ala Leu Ile Glu Glu Leu His		
1315	1320	1325
Lys Glu Ile Arg Leu Ile Gly Asn Glu Ser Lys Gly Glu His Val Pro		
1330	1335	1340
Gly Phe Cys Leu Pro Lys Lys Gly Val Thr Ser Ile Leu Pro Val Leu		
1345	1350	1355
Arg Glu Gly Val Leu Thr Gly Ser Pro Glu Gln Lys Glu Glu Ala Ala		1360
1365	1370	1375
Lys Ala Leu Gly Leu Val Ile Arg Leu Thr Ser Ala Asp Ala Leu Arg		
1380	1385	1390
Pro Ser Val Val Ser Ile Thr Gly Pro Leu Ile Arg Ile Leu Gly Asp		
1395	1400	1405
Arg Phe Ser Trp Asn Val Lys Ala Ala Leu Leu Glu Thr Leu Ser Leu		
1410	1415	1420
Leu Leu Ala Lys Val Gly Ile Ala Leu Lys Pro Phe Leu Pro Gln Leu		
1425	1430	1435
Gln Thr Thr Phe Thr Lys Ala Leu Gln Asp Ser Asn Arg Gly Val Arg		1440
1445	1450	1455
Leu Lys Ala Ala Asp Ala Leu Gly Lys Leu Ile Ser Ile His Ile Lys		
1460	1465	1470
Val Asp Pro Leu Phe Thr Glu Leu Asn Gly Ile Arg Ala Met Glu		
1475	1480	1485

Asp Pro Gly Val Arg Asp Thr Met Leu Gln Ala Leu Arg Phe Val Ile
 1490 1495 1500
 Gln Gly Ala Gly Ala Lys Val Asp Ala Val Ile Arg Lys Asn Ile Val
 1505 1510 1515 1520
 Ser Leu Leu Leu Ser Met Leu Gly His Asp Glu Asp Asn Thr Arg Ile
 1525 1530 1535
 Ser Ser Ala Gly Cys Leu Gly Glu Leu Cys Ala Phe Leu Thr Glu Glu
 1540 1545 1550
 Glu Leu Ser Ala Val Leu Gln Gln Cys Leu Leu Ala Asp Val Ser Gly
 1555 1560 1565
 Ile Asp Trp Met Val Arg His Gly Arg Ser Leu Ala Leu Ser Val Ala
 1570 1575 1580
 Val Asn Val Ala Pro Gly Arg Leu Cys Ala Gly Arg Tyr Ser Ser Asp
 1585 1590 1595 1600
 Val Gln Glu Met Ile Leu Ser Ser Ala Thr Ala Asp Arg Ile Pro Ile
 1605 1610 1615
 Ala Val Ser Gly Val Arg Gly Met Gly Phe Leu Met Arg His His Ile
 1620 1625 1630
 Glu Thr Gly Gly Gly Gln Leu Pro Ala Lys Leu Ser Ser Leu Phe Val
 1635 1640 1645
 Lys Cys Leu Gln Asn Pro Ser Ser Asp Ile Arg Leu Val Ala Glu Lys
 1650 1655 1660
 Met Ile Trp Trp Ala Asn Lys Asp Pro Leu Pro Pro Leu Asp Pro Gln
 1665 1670 1675 1680
 Ala Ile Lys Pro Ile Leu Lys Ala Leu Leu Asp Asn Thr Lys Asp Lys
 1685 1690 1695
 Asn Thr Val Val Arg Ala Tyr Ser Asp Gln Ala Ile Val Asn Leu Leu
 1700 1705 1710
 Lys Met Arg Gln Gly Glu Glu Val Phe Gln Ser Leu Ser Lys Ile Leu
 1715 1720 1725
 Asp Val Ala Ser Leu Glu Val Leu Asn Glu Val Asn Arg Arg Ser Leu
 1730 1735 1740
 Lys Lys Leu Ala Ser Gln Ala Asp Ser Thr Glu Gln Val Asp Asp Thr
 1745 1750 1755 1760
 Ile Leu Thr *
 1763

<210> 1033

<211> 151

<212> PRT

<213> Homo sapiens

<400> 1033

Met Asn Arg Arg Ala Ser Gln Met Leu Leu Met Phe Leu Leu Ala Ile
 1 5 10 15
 Cys Leu Leu Ala Ile Ile Phe Val Pro Gln Glu Met Gln Met Leu Arg
 20 25 30
 Glu Val Leu Ala Thr Leu Gly Leu Gly Ala Ser Ala Leu Ala Asn Thr
 35 40 45
 Leu Ala Phe Ala His Gly Asn Glu Val Ile Pro Thr Ile Ile Arg Ala
 50 55 60
 Arg Ala Met Gly Ile Asn Ala Thr Phe Ala Asn Ile Ala Gly Ala Leu
 65 70 75 80
 Ala Pro Leu Met Met Ile Leu Ser Val Tyr Ser Pro Pro Leu Pro Trp
 85 90 95
 Ile Ile Tyr Gly Val Phe Pro Phe Ile Ser Gly Phe Ala Phe Leu Leu

```

          100          105          110
Leu Pro Glu Thr Arg Asn Lys Pro Leu Phe Asp Thr Ile Gln Asp Glu
          115          120          125
Lys Asn Glu Arg Lys Asp Pro Arg Glu Pro Lys Gln Glu Asp Pro Arg
          130          135          140
Val Glu Val Thr Gln Phe *
          145          150

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<210> 1034
<211> 149
<212> PRT
<213> Homo sapiens

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```

<400> 1034
Met Ala Leu Leu Leu Pro Arg Trp Phe Arg Glu Ala Pro Val Leu Phe
  1          5          10          15
Ser Thr Gly Trp Ser Pro Leu Asp Val Leu Leu His Ser Leu Leu Thr
          20          25          30
Gln Pro Ile Phe Leu Ala Gly Leu Ser Gly Phe Leu Leu Glu Asn Thr
          35          40          45
Ile Pro Gly Thr Gln Leu Glu Arg Gly Leu Gly Gln Gly Leu Pro Ser
          50          55          60
Pro Phe Thr Ala Gln Glu Ala Arg Met Pro Gln Lys Pro Arg Glu Lys
          65          70          75          80
Ala Ala Gln Val Tyr Arg Leu Pro Phe Pro Ile Gln Asn Leu Cys Pro
          85          90          95
Cys Ile Pro Gln Pro Leu His Cys Leu Cys Pro Leu Pro Glu Asp Pro
          100          105          110
Gly Asp Glu Glu Gly Gly Ser Ser Glu Pro Glu Glu Met Ala Asp Leu
          115          120          125
Leu Pro Gly Ser Gly Glu Pro Cys Pro Glu Ser Thr Arg Glu Gly Val
          130          135          140
Arg Ser Gln Lys *
          145          148

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<210> 1035
<211> 88
<212> PRT
<213> Homo sapiens

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<400> 1035
Met Gly Ile Ala Leu Leu Gln Ile Phe Gly Ile Cys Leu Ala Gln Asn
  1          5          10          15
Leu Val Ser Asp Ile Lys Ala Val Lys Ala Asn Trp Ser Lys Trp Asn
          20          25          30
Asp Asp Phe Glu Asn His Trp Leu Thr Pro Thr Ile Ser Glu Val Leu
          35          40          45
Ser Thr Ala Gly Pro Gln Gln Asn Ser Leu Thr Gly Ala Pro Gly Pro
          50          55          60
Ala Pro Pro Ser Arg His Val Phe Phe Gly Leu Gly Gly Leu Tyr Pro
          65          70          75          80
Glu Pro Thr Phe Lys Asn Trp *
          85          87

```

<210> 1036
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1036
 Met Val Val Leu Ile Pro Val Ser Trp Val Ala Asn Ala Ile Ile Arg
 1 5 10 15
 Asp Phe Tyr Asn Ser Ile Val Asn Val Ala Gln Lys Arg Glu Leu Gly
 20 25 30
 Glu Ala Leu Tyr Leu Gly Trp Thr Thr Ala Leu Val Leu Ile Val Gly
 35 40 45
 Gly Ala Leu Phe Cys Cys Val Phe Cys Cys Asn Glu Lys Ser Ser Ser
 50 55 60
 Tyr Arg Tyr Ser Ile Pro Ser His Arg Thr Thr Gln Lys Ser Tyr His
 65 70 75 80
 Thr Gly Lys Lys Ser Pro Ser Val Tyr Ser Arg Ser Gln Tyr Val *
 85 90 95

<210> 1037
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1037
 Met Ala Leu Ser Trp Met Thr Ile Val Val Pro Leu Leu Thr Phe Glu
 1 5 10 15
 Ile Leu Leu Val His Lys Leu Asp Gly His Asn Ala Phe Ser Cys Ile
 20 25 30
 Pro Ile Phe Val Pro Leu Trp Leu Ser Leu Ile Thr Leu Met Ala Thr
 35 40 45
 Thr Phe Gly Gln Lys Gly Gly Asn His Trp Trp Phe Gly Ile Arg Lys
 50 55 60
 Asp Phe Cys Gln Phe Leu Leu Glu Ile Phe Pro Phe Leu Arg Glu Tyr
 65 70 75 80
 Gly Asn Ile Ser Tyr Asp Leu His His Glu Asp Asn Glu Glu Thr Glu
 85 90 95
 Glu Thr Pro Val Pro Glu Pro Pro Lys Ile Ala Pro Met Phe Arg Lys
 100 105 110
 Lys Ala Arg Val Val Ile Thr Gln Ser Pro Gly Lys Tyr Val Leu Pro
 115 120 125
 Pro Pro Lys Leu Asn Ile Glu Met Pro Asp *
 130 135 138

<210> 1038
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1038

```

Met Val Leu Ser Gly Ile His Trp Tyr Ser Val Leu Leu Leu Ala Val
 1          5          10          15
Glu Phe Cys Arg Tyr Cys Pro Leu Arg Tyr Arg Cys Ser Thr Phe Ser
      20          25          30
Ser Trp Ala Arg Val Ser Ser Thr Pro Gln Ala Ser Ser Pro Val Ala
      35          40          45
Leu Thr Met Leu Ser Ser Arg Gly Arg Ser Glu Gly Gly Ala Leu *
 50          55          60          63

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<210> 1039

<211> 286

<212> PRT

<213> Homo sapiens

<400> 1039

```

Met Met Leu Gly Pro Val Thr Leu His Leu Val Gly His Leu Leu Ala
 1          5          10          15
Phe Leu Asp Leu Leu Cys Pro Arg Gly Pro Ile His Ser Ile Leu Pro
      20          25          30
Met Thr Phe Glu Ala Val Lys Gln Asp His Gly Phe Met Leu Tyr Arg
      35          40          45
Thr Tyr Met Thr His Thr Ile Phe Glu Pro Thr Pro Phe Trp Val Pro
      50          55          60
Asn Asn Gly Val His Asp Arg Ala Tyr Val Met Val Asp Gly Val Phe
      65          70          75          80
Gln Gly Val Val Glu Arg Asn Met Arg Asp Lys Leu Phe Leu Thr Gly
      85          90          95
Lys Leu Gly Ser Lys Leu Asp Ile Leu Val Glu Asn Met Gly Arg Leu
      100          105          110
Ser Phe Gly Ser Asn Ser Ser Asp Phe Lys Gly Leu Leu Lys Pro Pro
      115          120          125
Ile Leu Gly Gln Thr Ile Leu Thr Gln Trp Met Met Phe Pro Leu Lys
      130          135          140
Ile Asp Asn Leu Val Lys Trp Trp Phe Pro Leu Gln Leu Pro Lys Trp
      145          150          155          160
Pro Tyr Pro Gln Ala Pro Ser Gly Pro Thr Phe Tyr Ser Lys Thr Phe
      165          170          175
Pro Ile Leu Gly Ser Val Gly Asp Thr Phe Leu Tyr Leu Pro Gly Trp
      180          185          190
Thr Lys Gly Gln Val Trp Ile Asn Gly Phe Asn Leu Gly Arg Tyr Trp
      195          200          205
Thr Lys Gln Gly Pro Gln Gln Thr Leu Tyr Val Pro Arg Phe Leu Leu
      210          215          220
Phe Pro Arg Gly Ala Leu Asn Lys Ile Thr Leu Leu Glu Leu Glu Asp
      225          230          235          240
Val Pro Leu Gln Pro Gln Val Gln Phe Leu Asp Lys Pro Ile Leu Asn
      245          250          255
Ser Thr Ser Thr Leu His Arg Thr His Ile Asn Ser Leu Ser Ala Asp
      260          265          270
Thr Leu Ser Ala Ser Glu Pro Met Glu Leu Ser Gly His *
      275          280          285

```

<210> 1040

<211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1040
 Met His Ala His Ser Ala Ser Leu Trp Val Ala Phe Phe Tyr Arg Ser
 1 5 10 15
 Pro Phe Leu Phe Phe Thr Thr Gly Pro Pro Pro Thr Ser Ser Ser
 20 25 30
 Pro Ala Gly Leu Pro Leu Leu Glu Ser Thr Val Asp Ala Ser Arg Pro
 35 40 45
 Asn Trp Leu Pro Leu Leu Leu Ser Pro Pro Leu Pro Phe Leu Ser Ile
 50 55 60
 Glu Cys Thr Leu Tyr Asn Phe Ser Gly Ile Val Ile Glu Asn Lys Ile
 65 70 75 80
 Phe Thr Ile Ile Thr Gly Phe Phe Gln Val Thr Ser Cys Arg Leu *
 85 90 95

<210> 1041
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1041
 Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
 1 5 10 15
 Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
 20 25 30
 Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
 35 40 45
 Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu *
 50 55 60 63

<210> 1042
 <211> 415
 <212> PRT
 <213> Homo sapiens

<400> 1042
 Met Asn Glu Thr Gly Val Ile Val Trp Tyr Leu Ala Leu Cys Leu Leu
 1 5 10 15
 Leu Ala Trp Leu Ile Val Gly Ala Ala Leu Phe Lys Gly Ile Lys Ser
 20 25 30
 Ser Gly Lys Val Val Tyr Phe Thr Ala Leu Phe Pro Tyr Val Val Leu
 35 40 45
 Leu Ile Leu Leu Val Arg Gly Ala Thr Leu Glu Gly Ala Ser Lys Gly
 50 55 60
 Ile Ser Tyr Tyr Ile Gly Ala Gln Ser Asn Phe Thr Lys Leu Lys Glu
 65 70 75 80
 Ala Glu Val Trp Lys Asp Ala Ala Thr Gln Ile Phe Tyr Ser Leu Ser
 85 90 95
 Val Ala Trp Gly Gly Leu Val Ala Leu Ser Ser Tyr Asn Lys Phe Lys

```

      100      105      110
Asn Asn Cys Phe Ser Asp Ala Ile Val Val Cys Leu Thr Asn Cys Leu
      115      120      125
Thr Ser Val Phe Ala Gly Phe Ala Ile Phe Ser Ile Leu Gly His Met
      130      135      140
Ala His Ile Ser Gly Lys Glu Val Ser Gln Val Val Lys Ser Gly Phe
      145      150      155      160
Asp Leu Ala Phe Ile Ala Tyr Pro Glu Ala Leu Ala Gln Leu Pro Gly
      165      170      175
Gly Pro Phe Trp Ser Ile Leu Phe Phe Phe Met Leu Leu Thr Leu Gly
      180      185      190
Leu Asp Ser Gln Phe Ala Ser Ile Glu Thr Ile Thr Thr Thr Ile Gln
      195      200      205
Asp Leu Phe Pro Lys Val Met Lys Lys Met Arg Val Pro Ile Thr Leu
      210      215      220
Gly Cys Cys Leu Val Leu Phe Leu Leu Gly Leu Val Cys Val Thr Gln
      225      230      235      240
Ala Gly Ile Tyr Trp Val His Leu Ile Asp His Phe Cys Ala Gly Trp
      245      250      255
Gly Ile Leu Ile Ala Ala Ile Leu Glu Leu Val Gly Ile Ile Trp Ile
      260      265      270
Tyr Gly Gly Asn Arg Phe Ile Glu Asp Thr Glu Met Met Ile Gly Ala
      275      280      285
Lys Arg Trp Ile Phe Trp Leu Trp Trp Arg Ala Cys Trp Phe Val Ile
      290      295      300
Thr Pro Ile Leu Leu Ile Ala Ile Phe Ile Trp Ser Leu Val Gln Phe
      305      310      315      320
His Arg Pro Asn Tyr Gly Ala Ile Pro Tyr Pro Asp Trp Gly Val Ala
      325      330      335
Leu Gly Trp Cys Met Ile Val Phe Cys Ile Ile Trp Ile Pro Ile Met
      340      345      350
Ala Ile Ile Lys Ile Ile Gln Ala Lys Gly Asn Ile Phe Gln Arg Leu
      355      360      365
Ile Ser Cys Cys Arg Pro Ala Ser Asn Trp Gly Pro Tyr Leu Glu Gln
      370      375      380
His Arg Gly Glu Arg Tyr Lys Asp Met Val Asp Pro Lys Lys Glu Ala
      385      390      395      400
Asp His Glu Ile Pro Thr Val Ser Gly Ser Arg Lys Pro Glu *
      405      410      414

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<210> 1043

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1043

```

Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
  1           5           10           15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20      25      30
Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser *
      35      40      45      47

```

<210> 1044

<211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1044
 Met Leu Phe Ser Ser Met Thr Leu Arg Leu Ser Arg Cys Ser Cys Ser
 1 5 10 15
 Ile Leu Leu Phe Trp Ala Ser Ala Ala Cys Met Phe Pro Ser Ser Arg
 20 25 30
 Tyr Leu Trp Ser Gly Arg Ser Leu Val Ser Val Glu Gly Ser Asp Arg
 35 40 45
 Phe Ser Ser Ala Val Ser Ser Phe Ser Ser Lys Ala Asn Trp Val Lys
 50 55 60
 Pro Lys Phe Arg Ser Trp Ser Gly Gly Ile Glu Leu Gly Phe Gln Met
 65 70 75 80
 His Trp Pro Pro Gly Val Gly Pro Arg Tyr Ser Pro Ser Cys His Phe
 85 90 95
 Pro Lys Ser Arg Trp Arg Thr Arg Pro Leu Arg Leu Ser Thr Ala Pro
 100 105 110
 Cys Thr Ser Trp Thr Leu Glu Leu Gln Tyr Leu Ala Leu Gln Lys Val
 115 120 125
 Ile Leu Gln Trp Gln Glu Leu Ser Cys Val Phe Arg Met Ser Thr Ser
 130 135 140
 Pro *
 145

<210> 1045
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1045
 Met Ala Leu Phe Cys Leu Val Tyr Gln Ile Ile Phe Leu Ile Gln His
 1 5 10 15
 Thr His Phe Ser Leu Ala Lys Leu Leu Ile Met Ala Leu Asn Thr Leu
 20 25 30
 Thr Tyr Cys Val Leu Val Gln Ser Asn Asn Thr Gln Ser Thr Leu Arg
 35 40 45
 Lys Ser Ala Ser *
 50 52

<210> 1046
 <211> 407
 <212> PRT
 <213> Homo sapiens

<400> 1046
 Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser
 1 5 10 15
 Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg
 20 25 30
 Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser

			35					40				45			
Ser	Arg	His	Ala	Ala	Glu	Leu	Arg	Asp	Phe	Lys	Asn	Lys	Met	Leu	Pro
	50					55					60				
Leu	Leu	Glu	Val	Ala	Glu	Lys	Glu	Arg	Glu	Ala	Leu	Arg	Thr	Glu	Ala
65					70					75					80
Asp	Thr	Ile	Ser	Gly	Arg	Val	Asp	Arg	Leu	Glu	Arg	Glu	Val	Asp	Tyr
			85						90					95	
Leu	Glu	Thr	Gln	Asn	Pro	Ala	Leu	Pro	Cys	Val	Glu	Phe	Asp	Glu	Lys
			100					105					110		
Val	Thr	Gly	Gly	Pro	Gly	Thr	Lys	Gly	Lys	Gly	Arg	Arg	Asn	Glu	Lys
	115						120				125				
Tyr	Asp	Met	Val	Thr	Asp	Cys	Gly	Tyr	Thr	Ile	Ser	Gln	Val	Arg	Ser
	130					135					140				
Met	Lys	Ile	Leu	Lys	Arg	Phe	Gly	Gly	Pro	Ala	Gly	Leu	Trp	Thr	Lys
145					150					155					160
Asp	Pro	Leu	Gly	Gln	Thr	Glu	Lys	Ile	Tyr	Val	Leu	Asp	Gly	Thr	Gln
			165						170					175	
Asn	Asp	Thr	Ala	Phe	Val	Phe	Pro	Arg	Leu	Arg	Asp	Phe	Thr	Leu	Ala
			180					185					190		
Met	Ala	Ala	Arg	Lys	Ala	Ser	Arg	Val	Arg	Val	Pro	Phe	Pro	Trp	Val
	195						200					205			
Gly	Thr	Gly	Gln	Leu	Val	Tyr	Gly	Gly	Phe	Leu	Tyr	Phe	Ala	Arg	Arg
	210					215					220				
Pro	Pro	Gly	Arg	Pro	Gly	Gly	Gly	Gly	Glu	Met	Glu	Asn	Thr	Leu	Gln
225					230				235						240
Leu	Ile	Lys	Phe	His	Leu	Ala	Asn	Arg	Thr	Val	Val	Asp	Ser	Ser	Val
			245						250					255	
Phe	Pro	Ala	Glu	Gly	Leu	Ile	Pro	Pro	Tyr	Gly	Leu	Thr	Ala	Asp	Thr
			260					265					270		
Tyr	Ile	Asp	Leu	Ala	Ala	Asp	Glu	Glu	Gly	Leu	Trp	Ala	Val	Tyr	Ala
	275						280					285			
Thr	Arg	Glu	Asp	Asp	Arg	His	Leu	Cys	Leu	Ala	Lys	Leu	Asp	Pro	Gln
	290					295					300				
Thr	Leu	Asp	Thr	Glu	Gln	Trp	Asp	Thr	Pro	Cys	Pro	Arg	Glu	Asn	
305					310				315						320
Ala	Glu	Ala	Ala	Phe	Val	Ile	Cys	Gly	Thr	Leu	Tyr	Val	Val	Tyr	Asn
			325						330					335	
Thr	Arg	Pro	Ala	Ser	Arg	Ala	Arg	Ile	Gln	Cys	Ser	Phe	Asp	Ala	Ser
			340					345					350		
Gly	Thr	Leu	Thr	Pro	Glu	Arg	Ala	Ala	Leu	Pro	Tyr	Phe	Pro	Arg	Arg
	355						360					365			
Tyr	Gly	Ala	His	Ala	Ser	Leu	Arg	Tyr	Asn	Pro	Arg	Glu	Arg	Gln	Leu
	370					375					380				
Tyr	Ala	Trp	Asp	Asp	Gly	Tyr	Gln	Ile	Val	Tyr	Lys	Leu	Glu</		

<210> 1047

<211> 268.

<212> PRT

<213> Homo sapiens

<400> 1047

Met Ile Gln Lys Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val
1 5 10 15

```

Tyr Leu Leu Phe Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu
      20      25      30
Asn Pro Cys Ala Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys
      35      40      45
Thr Val Pro Thr Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr
      50      55      60
Phe Leu Leu Asp Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu
      65      70      75      80
Met Leu Ser Ser Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val
      85      90      95
Thr Tyr Ile Ile Leu Thr Phe Val Leu Leu Asn Met Leu Ile Ala
      100      105      110
Leu Met Gly Glu Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile
      115      120      125
Trp Lys Leu Gln Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe
      130      135      140
Pro Val Phe Leu Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val
      145      150      155      160
Gly Lys Ser Ser Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val
      165      170      175
Asp Glu Val Asn Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn
      180      185      190
Glu Asp Pro Gly Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His
      195      200      205
Thr Val Gly Arg Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg
      210      215      220
Val Val Glu Leu Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro
      225      230      235      240
Leu Asp Ser Met Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr
      245      250      255
Pro Arg Lys Trp Arg Thr Asp Asp Ala Pro Leu *
      260      265      267

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<210> 1048
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

<400> 1048
Met Trp Ser His Phe Trp Lys Val Ser Thr Gln Gly Leu Phe Val Ala
  1      5      10      15
Met Phe Trp Pro Leu Ile Pro Gln Phe Val Cys Asn Cys Leu Phe Tyr
      20      25      30
Trp Ala Leu Tyr Phe Asn Pro Ile Ile Asn Ile Asp Leu Val Val Lys
      35      40      45
Glu Leu Arg Arg Leu Glu Thr Gln Val Leu *
      50      55      58

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<210> 1049
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1049

```

Met Arg Cys Arg Cys Cys Leu Cys Ser Ser Cys Phe Trp Gly Leu Trp
 1           5           10           15
Asp Pro Cys Pro Lys Ser Val Trp Ser Pro Trp Ser Ser Ser Leu
           20           25           30
Gly Ala Phe Ser Val Gly Ser Glu Leu Ala Ser Ala Ala Ser Ser Leu
           35           40           45
Ser Pro Pro Ser Cys Ser Pro Arg Thr Ala Pro Arg Ser Thr Ala Lys
           50           55           60
Leu Cys Leu Arg Trp Ser Arg Pro Gly Asn Cys Gly *
           65           70           75 76

```

<210> 1050

<211> 474

<212> PRT

<213> Homo sapiens

<400> 1050

```

Met Arg Ala Leu Val Leu Leu Gly Cys Leu Leu Ala Ser Leu Leu Phe
 1           5           10           15
Ser Gly Gln Ala Glu Glu Thr Glu Asp Ala Asn Glu Glu Ala Pro Leu
           20           25           30
Arg Asp Arg Ser His Ile Glu Lys Thr Leu Met Leu Asn Glu Asp Lys
           35           40           45
Pro Ser Asp Asp Tyr Ser Ala Val Leu Gln Arg Leu Arg Lys Ile Tyr
           50           55           60
His Ser Ser Ile Lys Pro Leu Glu Gln Ser Tyr Lys Tyr Asn Glu Leu
           65           70           75           80
Arg Gln His Glu Ile Thr Asp Gly Glu Ile Thr Ser Lys Pro Met Val
           85           90           95
Leu Phe Leu Gly Pro Trp Ser Val Gly Lys Ser Thr Met Ile Asn Tyr
           100          105          110
Leu Leu Gly Leu Glu Asn Thr Arg Tyr Gln Leu Tyr Thr Gly Ala Glu
           115          120          125
Pro Thr Thr Ser Glu Phe Thr Val Leu Met His Gly Pro Lys Leu Lys
           130          135          140
Thr Ile Glu Gly Ile Val Met Ala Ala Asp Ser Ala Arg Ser Phe Ser
           145          150          155          160
Pro Leu Glu Lys Phe Gly Gln Asn Phe Leu Glu Lys Leu Ile Gly Ile
           165          170          175
Glu Val Pro His Lys Leu Leu Glu Arg Val Thr Phe Val Asp Thr Pro
           180          185          190
Gly Ile Ile Glu Asn Arg Lys Gln Gln Glu Arg Gly Tyr Pro Phe Asn
           195          200          205
Asp Val Cys Gln Trp Phe Ile Asp Arg Ala Asp Leu Ile Phe Val Val
           210          215          220
Phe Asp Pro Thr Lys Leu Asp Val Gly Leu Glu Leu Glu Met Leu Phe
           225          230          235          240
Arg Gln Leu Lys Gly Arg Glu Ser Gln Ile Arg Ile Ile Leu Asn Lys
           245          250          255
Ala Asp Asn Leu Ala Thr Gln Met Leu Met Arg Val Tyr Gly Ala Leu
           260          265          270
Phe Trp Ser Leu Ala Pro Leu Ile Asn Val Thr Glu Pro Pro Arg Val
           275          280          285
Tyr Val Ser Ser Phe Trp Pro Gln Glu Tyr Lys Pro Asp Thr His Gln
           290          295          300

```

Glu Leu Phe Leu Gln Glu Glu Ile Ser Leu Leu Glu Asp Leu Asn Gln
 305 310 315 320
 Val Ile Glu Asn Arg Leu Glu Asn Lys Ile Ala Phe Ile Arg Gln His
 325 330 335
 Ala Ile Arg Val Arg Ile His Ala Leu Leu Val Asp Arg Tyr Leu Gln
 340 345 350
 Thr Tyr Lys Asp Lys Met Thr Phe Phe Ser Asp Gly Glu Leu Val Phe
 355 360 365
 Lys Asp Ile Val Glu Asp Pro Asp Lys Phe Tyr Ile Phe Lys Thr Ile
 370 375 380
 Leu Ala Lys Thr Asn Val Ser Lys Phe Asp Leu Pro Asn Arg Glu Ala
 385 390 395 400
 Tyr Lys Asp Phe Phe Gly Ile Asn Pro Ile Ser Ser Phe Lys Leu Leu
 405 410 415
 Ser Gln Gln Cys Ser Tyr Met Gly Gly Cys Phe Leu Glu Lys Ile Glu
 420 425 430
 Arg Ala Ile Thr Gln Glu Leu Pro Gly Leu Leu Gly Ser Leu Gly Leu
 435 440 445
 Gly Lys Asn Pro Gly Ala Leu Asn Cys Asp Lys Thr Gly Cys Ser Glu
 450 455 460
 Thr Pro Lys Asn Arg Tyr Arg Lys His *
 465 470 473

<210> 1051

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1051

Met Gln Arg Pro Ser Ala Trp Trp Ile Leu Phe Cys Ser Leu Asn Leu
 1 5 10 15
 Leu Ala Arg Phe Ile Gln Cys Leu Gln Ile Val Asn Lys Glu Val His
 20 25 30
 Phe Phe Arg Tyr Ile Lys Tyr Tyr Lys Phe Trp Glu Gly Arg *
 35 40 45 46

<210> 1052

<211> 233

<212> PRT

<213> Homo sapiens

<400> 1052

Met Ala Trp Thr Pro Leu Trp Leu Thr Leu Leu Thr Leu Cys Ile Gly
 1 5 10 15
 Ser Val Val Ser Ser Glu Leu Thr Gln Asp Pro Thr Val Ser Val Ala
 20 25 30
 Leu Gly Gln Thr Leu Arg Ile Lys Cys Gln Gly Asp Thr Ile Arg Ser
 35 40 45
 Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Ile Leu
 50 55 60
 Val Ile Tyr Gly Gln Asn Asn Arg Pro Ser Gly Ile Pro Gly Arg Phe
 65 70 75 80
 Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu

85										90				95			
Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Cys	Ser	Tyr	Ala	Gly	Arg		
100				105				110									
Thr	Thr	Trp	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly	Gln		
115				120				125									
Pro	Lys	Ala	Ala	Pro	Ser	Val	Thr	Leu	Phe	Pro	Pro	Ser	Ser	Glu	Glu		
130				135				140									
Leu	Gln	Ala	Asn	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ile	Ser	Asp	Phe	Tyr		
145				150				155				160					
Pro	Gly	Ala	Val	Thr	Val	Ala	Trp	Lys	Ala	Asp	Ser	Ser	Pro	Val	Lys		
165				170				175									
Ala	Gly	Val	Glu	Thr	Thr	Thr	Pro	Ser	Lys	Gln	Ser	Asn	Asn	Lys	Tyr		
180				185				190									
Ala	Ala	Ser	Ser	Tyr	Leu	Ser	Leu	Thr	Pro	Glu	Gln	Trp	Lys	Ser	His		
195				200				205									
Arg	Ser	Tyr	Ser	Cys	Gln	Val	Thr	His	Glu	Gly	Ser	Thr	Val	Glu	Lys		
210				215				220									
Thr	Val	Ala	Pro	Thr	Glu	Cys	Ser	*									
225				230				232									

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<210> 1053
<211> 147
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1054
<211> 123
<212> PRT
<213> Homo sapiens
```

<400> 1054


```

Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys
 1          5          10          15
Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val
          20          25          30
Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly
          35          40          45
Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
          50          55          60
His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Arg Leu Ser Pro Trp
          65          70          75          80
Glu Asp Leu Gly Gln Ala Pro Thr Met Asp Ser Pro Leu Glu Lys Asn
          85          90          95
Pro Arg Ser Ala Gly Arg Ile Arg His Arg His Gly Ser Pro His Pro
          100          105          110
Ser Arg Arg Thr Ala Pro Ala Val Ala Thr *
          115          120          122

```

<210> 1055
 <211> 122
 <212> PRT
 <213> Homo sapiens

```

<400> 1055
Met Leu Thr Cys Leu Phe Ser Phe Gln Gly Cys Trp Arg Ala Arg Gly
 1          5          10          15
Trp Gln Arg Leu Cys Glu Gly Arg Arg Gly Trp Pro Gly Val Gly Gln
          20          25          30
Arg Thr Leu Lys Val Ser Glu Pro Ala Pro Leu Arg Val Gly Arg Ala
          35          40          45
Leu Pro Gln Ala Leu Leu Gly Ala Arg Pro His Cys Val Phe Pro Gly
          50          55          60
Gly Glu Val Leu Gly Val Glu Ala Ala Phe Gly Ser Ser Phe Ile Leu
          65          70          75          80
Ser Thr Phe Phe Leu His Gln Pro Leu Phe Phe Pro Gly Pro Lys Leu
          85          90          95
Arg Ala Thr Gln Tyr Leu Ile Ser Ser Asp Pro Thr His Leu Pro Ala
          100          105          110
Gly Arg Gly Pro Asn Ser Val Ser Met *
          115          120 121

```

<210> 1056
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

<400> 1056
Met Pro Thr Lys Leu Ser Ala Val Gly Ile Leu Val Gly Thr Leu Val
 1          5          10          15
Ala Ile Gly Ile Phe Leu Ile Leu Ile Phe Thr His Trp Thr Met Ser
          20          25          30
Arg Lys Lys Asp Pro Asp Gln Pro Ala Asp Ser Val Pro Leu Lys Ala
          35          40          45
Thr Val *

```

50

<210> 1057
 <211> 260
 <212> PRT
 <213> Homo sapiens

<400> 1057
 Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro
 1 5 10 15
 Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser
 20 25 30
 Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
 35 40 45
 Val Gly Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro
 50 55 60
 Arg Pro Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala
 65 70 75 80
 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser
 85 90 95
 Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln His Arg Asp
 100 105 110
 Asn Trp Pro Pro Gly Ala Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
 115 120 125
 Lys His Thr Thr Gly Glu Ile Val Leu Thr Gln Ala Pro Gly Thr Leu
 130 135 140
 Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln
 145 150 155 160
 Thr Ile Gly Ser Thr Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys
 165 170 175
 Ala Pro Lys Leu Leu Ile Tyr Trp Phe Ile Gln Phe Ala Lys Arg Gly
 180 185 190
 Pro Ile Lys Val Gln Cys His Arg Val Arg Gly Gln Thr Ser Leu Ser
 195 200 205
 Pro Ser Ala Asp Trp Ser Leu Lys Ile Leu Gln Cys Ile Ser Val Thr
 210 215 220
 Asn Met Gly Ala His Pro Thr Leu Leu Ala Glu Gly Pro Arg Trp Arg
 225 230 235 240
 Ser Asn Glu Leu Trp Leu His His Leu Ser Ser Ser Arg His Leu
 245 250 255
 Met Ser Ser *
 259

<210> 1058
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1058
 Met Lys Gly Leu Phe Cys Leu Trp Pro Leu Val Arg Ser Val Ser Ser
 1 5 10 15
 Leu Met Thr Ser Ser Thr Ser Cys Pro Ser Pro Pro Thr Leu Pro Pro
 20 25 30

Trp Arg Pro Cys Leu Pro Arg Leu Arg Met Arg Val Leu Val Leu Leu
 35 40 45
 Ile Trp Ser *
 50 51

<210> 1059
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1059
 Met Gly Arg Gly Ser Glu Leu Pro Val Cys Leu Ala Phe Leu Val Cys
 1 5 10 15
 Leu Met Ala Ala Leu Gly Cys Cys Glu Val Leu Ser Thr Val His Pro
 20 25 30
 Glu Glu Thr Val Leu Arg Ala Pro Pro Thr Asn Phe Gln Arg Cys Gln
 35 40 45
 Leu Gln Gln Gly Ser Ala Leu Val Arg Glu Thr Ala Trp Gly Val Gly
 50 55 60
 Arg Gly Arg Pro Ser Glu Arg Trp His Gly Glu Leu Ala Gly Gly Gly
 65 70 75 80
 Ser Arg Arg Asp Gly Met Glu Gly Leu Gly Pro Val Leu Leu Gly Ala
 85 90 95 96
 *

<210> 1060
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1060
 Met Asn Lys His Phe Leu Phe Leu Phe Leu Leu Tyr Cys Leu Ile Ala
 1 5 10 15
 Ala Val Thr Ser Leu Gln Cys Ile Thr Cys His Leu Arg Thr Arg Thr
 20 25 30
 Asp Arg Cys Arg Arg Gly Phe Gly Val Cys Thr Ala Gln Lys Gly Glu
 35 40 45
 Ala Cys Met Leu Leu Arg Ile Tyr Gln Arg Asn Thr Leu Gln Ile Ser
 50 55 60
 Tyr Met Val Cys Gln Lys Phe Cys Arg Asp Met Thr Phe Asp Leu Arg
 65 70 75 80
 Asn Arg Thr Tyr Val His Thr Cys Cys Asn Tyr Asn Tyr Cys Asn Phe
 85 90 95
 Lys Leu *
 98

<210> 1061
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1061

```

Met Asn Val Val Ser Leu Val Ile Leu Phe Trp Ala Ile Tyr Cys Val
 1           5           10           15
Thr Ile Cys Met Asp Leu Tyr Leu Lys His Phe Cys Lys Lys Phe Phe
          20           25           30
Lys Val Phe Phe Lys Cys Val Ile Ile Cys Ala Phe Lys Ser Ile Leu
          35           40           45
His Phe Ser Leu Ile Cys Thr Phe Lys Lys Ile Phe Phe Phe Phe *
          50           55           60           63

```

<210> 1062

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1062

```

Met Tyr Leu Ser Asn Thr Thr Val Thr Ile Leu Ala Asn Leu Val Pro
 1           5           10           15
Phe Thr Leu Thr Leu Ile Ser Phe Leu Leu Leu Ile Cys Ser Leu Cys
          20           25           30
Lys His Leu Lys Lys Met Gln Leu His Gly Lys Gly Ser Gln Asp Pro
          35           40           45
Ser Met Lys Val His Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu
          50           55           60
Leu Leu Cys Ala Ile Tyr Phe Leu Ser Met Ile Ile Ser Val Cys Asn
          65           70           75           80
Phe Gly Arg Leu Glu Lys Gln Pro Val Phe Met Phe Cys Gln Ala Ile
          85           90           95
Ile Phe Ser Tyr Pro Ser Thr His Pro Phe Ile Leu Ile Leu Gly Asn
          100          105          110
Lys Lys Leu Lys Gln Ile Phe Leu Ser Val Leu Arg His Val Arg Tyr
          115          120          125
Trp Val Lys Asp Arg Ser Leu Arg Leu His Arg Phe Thr Arg Gly Ala
          130          135          140
Leu Cys Val Phe *
          145          148

```

<210> 1063

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1063

```

Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val
 1           5           10           15
Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro
          20           25           30
Cys Ala Leu Trp His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg
          35           40           45
Glu Ala Ser Gln Ile Leu Pro Tyr His His Gln Gly Ser Cys *
          50           55           60           62

```

<210> 1064
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1064
 Met Met Leu Met Ser Leu Gly Gly Leu Leu Gly Pro Pro Leu Ser Gly
 1 5 10 15
 Phe Leu Arg Asp Glu Thr Gly Asp Phe Thr Ala Ser Phe Leu Leu Ser
 20 25 30
 Gly Ser Leu Ile Leu Ser Gly Ser Phe Ile Tyr Ile Gly Leu Pro Arg
 35 40 45
 Ala Leu Pro Ser Cys Gly Pro Ala Ser Pro Pro Ala Thr Pro Pro Pro
 50 55 60
 Glu Thr Gly Glu Leu Leu Pro Ala Pro Gln Ala Val Leu Leu Ser Pro
 65 70 75 80
 Gly Gly Pro Gly Ser Thr Leu Asp Thr Thr Cys *
 85 90 91

<210> 1065
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1065
 Met Phe Leu Glu His Ala Ile His Cys Ser Leu Leu Phe Leu Ser Gln
 1 5 10 15
 Leu Pro Leu Leu Pro Pro Leu Val Phe Leu Leu Leu Ser His Leu Leu
 20 25 30
 Ser Glu Val Pro Leu Ile Gln Gln Pro Pro Ser Leu Ser Pro Tyr Pro
 35 40 45
 Asp Leu Leu Ser Pro Phe Ser Val Thr Arg Leu Pro Ser Asn Ile Leu
 50 55 60
 Cys Asn *
 65 66

<210> 1066
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1066
 Met Gly Gln Val Pro Cys Cys Trp Ala Trp Trp Ser Leu Leu Gln Gly
 1 5 10 15
 Arg Gly Ser Trp Cys Glu His Lys Glu Leu Arg Gly Trp Arg Arg Pro
 20 25 30
 Gly Pro Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro
 35 40 45
 Gly Ala Cys Arg Arg Thr Pro Ala Arg Gly Gln Ala Gly Pro Asp Ser

50 55 60
 Leu Ala Gly Trp Asp Leu Thr Gly Ala Pro Gly Ser Leu Gly
 65 70 75 78

<210> 1067
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1067
 Met Tyr Phe Gly Ala Tyr Ala Phe Thr Val Ala Pro Arg Leu Ala Ile
 1 5 10 15
 Leu Gln Val Val Asn Val Ile Ser Tyr Lys Asp Ile Arg His Phe Tyr
 20 25 30
 Leu Arg His Trp Arg Asn Glu Arg Asn Cys Ile Cys His Val Asp Gly
 35 40 45
 Ala Leu Ile Lys Glu Gln *
 50 54

<210> 1068
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1068
 Met His Val Cys Met Pro Leu Cys Leu Phe Leu Leu Ser Phe Ser Val
 1 5 10 15
 Ser Pro Asp Pro Arg Leu Leu Arg Met Glu Arg Leu Phe Arg Gly Cys
 20 25 30
 Ala Gln Asp Cys Pro Phe Leu Ala Leu His Gln Gly Glu Leu Trp *
 35 40 45 47

<210> 1069
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1069
 Met Ser Asn Leu Gln Phe Ile Phe Lys Asp Phe Gly Ile Leu Ile Lys
 1 5 10 15
 Phe Trp Tyr Leu His Ile Lys Phe Gly Phe Tyr Ile Thr Ser Cys Leu
 20 25 30
 Leu Cys Phe Pro Pro Ser Phe Met Leu Phe Phe Gly Phe Trp Pro His
 35 40 45
 Asp Tyr Asn Leu Arg Phe Cys Ile His Ile Thr Phe Cys His Phe *
 50 55 60 63

<210> 1070

<211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1070
 Met Pro Ser Ile Arg Leu Gly Leu Ser His Leu Phe Leu Thr Ala Gly
 1 5 10 15
 Ile Tyr Cys Leu Leu Leu Cys Ala Arg Cys Cys Ala Leu Gly Arg Gly
 20 25 30
 Thr Ala Trp Ala Ala Cys Pro Gly Gly Ala Cys Gly Leu Met Gly Glu
 35 40 45
 Ala Asp Pro Ser Pro Pro His Cys Gln Gln Gly Gln Gly Lys Ser Thr
 50 55 60
 His Arg Gly Leu Ile Pro Tyr Val *
 65 70 72

<210> 1071
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 1071
 Met Phe Trp Thr Met Ile Ile Leu Leu Gln Val Leu Ile Pro Ile Ser
 1 5 10 15
 Leu Tyr Val Ser Ile Glu Ile Val Lys Leu Gly Gln Ile Tyr Phe Ile
 20 25 30
 Gln Ser Asp Val Asp Phe Tyr Asn Glu Lys Met Asp Ser Ile Val Gln
 35 40 45
 Cys Arg Ala Leu Asn Ile Ala Glu Asp Leu Gly Gln Ile Gln Tyr Leu
 50 55 60
 Phe Ser Asp Lys Thr Gly Thr Leu Thr Glu Asn Lys Met Val Phe Arg
 65 70 75 80
 Arg Trp Ser Gly Gly Arg Phe Asp Tyr Cys Pro Gly Glu Lys Ala Arg
 85 90 95
 Arg Val Glu Ser Phe Gln Glu Ala Ala Phe Glu Glu Glu His Phe Leu
 100 105 110
 Thr Thr Gly Arg Gly Phe Leu Thr His Met Ala Asn Pro Arg Ala Pro
 115 120 125
 Pro Leu Ala Asp Thr Phe Lys Met Gly Ala Ser Gly Arg Leu Ser Pro
 130 135 140
 Pro Ser Leu Thr Ala Arg Gly Ala
 145 150 152

<210> 1072
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1072
 Met Thr Ala Gly Val Leu Trp Gly Leu Phe Gly Val Leu Gly Phe Thr
 1 5 10 15
 Gly Val Ala Leu Leu Leu Tyr Ala Leu Phe His Lys Ile Ser Gly Glu

```

      20      25      30
Ser Ser Ala Thr Asn Glu Pro Arg Gly Ala Ser Arg Pro Asn Pro Gln
      35      40      45
Glu Phe Thr Tyr Ser Ser Pro Thr Pro Asp Met Glu Glu Leu Gln Pro
      50      55      60
Val Tyr Val Asn Val Gly Ser Val Asp Val Asp Val Val Tyr Ser Gln
      65      70      75      80
Val Trp Ser Met Gln Gln Pro Glu Ser Ser Ala Asn Ile Arg Thr Leu
      85      90      95
Leu Glu Asn Lys Asp Ser Gln Val Ile Tyr Ser Ser Val Lys Lys Ser
      100      105      110      112
*
```

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<210> 1073
<211> 52
<212> PRT
<213> Homo sapiens
```

```

<400> 1073
Met Thr Leu Cys Cys Pro Trp Ala Thr Met His Pro Ser Thr Val Leu
 1      5      10      15
Arg Met Val Trp Ser Leu Arg Ser Arg Ala Arg Arg Trp Gly Ser Val
      20      25      30
Arg Thr Gly Leu Ser Trp Ser Ser Ser Asp Ser Arg Ile Thr Ser
      35      40      45
Leu Ser Leu *
      50 51
```

```

<210> 1074
<211> 78
<212> PRT
<213> Homo sapiens
```

```

<400> 1074
Met Phe Ser Arg Leu Tyr Ala Val Cys Met Leu Tyr Met Trp Gly Phe
 1      5      10      15
Val Asp Lys Met Cys Val Trp Ser Val Met Gln Val Cys Tyr Cys Leu
      20      25      30
Val Phe Val Tyr Val Phe Leu Cys Met Val Cys Arg Val Arg Ala His
      35      40      45
Asp His Ile Gln Ile Leu Asp Pro Tyr Ser Arg Leu Val Leu Ser Arg
      50      55      60
Leu Pro Arg Leu Glu Thr Gly Lys Asp Ser Ser Ser Leu *
      65      70      75      77
```

```

<210> 1075
<211> 253
<212> PRT
<213> Homo sapiens
```


<400> 1075

```

Met Ser Ser Ser Pro Gly Leu Leu Phe Ser Ser Leu Ser His Leu Leu
 1           5           10           15
Leu Asn Ser Ser Thr Leu Ala Leu Leu Thr His Arg Leu Ser Gln Met
           20           25           30
Thr Cys Leu Gln Ser Leu Arg Leu Asn Arg Asn Ser Ile Gly Asp Val
           35           40           45
Gly Cys Cys His Leu Ser Glu Ala Leu Arg Ala Ala Thr Ser Leu Glu
           50           55           60
Glu Leu Asp Leu Ser His Asn Gln Ile Gly Asp Ala Gly Asp Gln His
           65           70           75           80
Leu Ala Thr Ile Leu Pro Gly Leu Pro Glu Leu Arg Lys Ile Asp Leu
           85           90           95
Ser Gly Asn Ser Ile Ser Ser Ala Gly Gly Val Gln Leu Ala Glu Ser
           100          105          110
Leu Val Leu Cys Arg Arg Leu Glu Glu Leu Met Leu Gly Cys Asn Ala
           115          120          125
Leu Gly Asp Pro Thr Ala Leu Gly Leu Ala Gln Glu Leu Pro Gln His
           130          135          140
Leu Arg Val Leu His Leu Pro Phe Ser His Leu Gly Pro Asp Gly Ala
           145          150          155          160
Leu Ser Leu Ala Gln Asp Leu Asp Gly Ser Pro His Leu Glu Glu Ile
           165          170          175
Ser Leu Ala Glu Asn Asn Leu Ala Gly Gly Val Leu Arg Phe Cys Met
           180          185          190
Glu Leu Pro Leu Leu Arg Gln Ile Glu Leu Ser Trp Asn Leu Leu Gly
           195          200          205
Asp Glu Ala Ala Ala Glu Leu Ala Gln Val Leu Pro Gln Met Gly Arg
           210          215          220
Leu Lys Arg Val Glu Tyr Glu Gly Pro Gly Glu Glu Trp Asp Gly Leu
           225          230          235          240
Lys Gly Asp Leu His Pro Gly Asn Thr Lys Arg Pro Leu
           245          250          253

```

<210> 1076

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1076

```

Met Ser Asp Ile Ser Pro Leu Leu Tyr Glu Ile Trp Leu Gly Asp Thr
 1           5           10           15
Ser Ala Gly Phe Phe Thr Phe Cys Val Thr Val Leu His Val Leu Leu
           20           25           30
Leu Leu Ser Ser Val Leu His Phe Leu Cys Pro Arg Asp Thr Ser Val
           35           40           45
Ile Ser Pro Phe Ile Pro Pro Leu Thr Pro Pro Gln Ser Arg Leu *
           50           55           60           63

```

<210> 1077

<211> 147

<212> PRT

<213> Homo sapiens

<400> 1077

```

Met Met Lys Ser Leu Arg Val Leu Leu Val Ile Leu Trp Leu Gln Leu
 1              5              10              15
Ser Trp Val Trp Ser Gln Gln Lys Glu Val Glu Gln Asn Ser Gly Pro
      20              25              30
Leu Ser Val Pro Glu Gly Ala Ile Ala Ser Leu Asn Cys Thr Tyr Ser
      35              40              45
Asp Arg Gly Ser Gln Ser Phe Phe Trp Tyr Arg Gln Tyr Ser Gly Lys
      50              55              60
Ser Pro Glu Leu Ile Met Ser Ile Tyr Ser Asn Gly Asp Lys Glu Asp
      65              70              75              80
Gly Arg Phe Thr Ala Gln Leu Asn Lys Ala Ser Gln Tyr Val Ser Leu
      85              90              95
Leu Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Thr Tyr Leu Cys Ala
      100             105             110
Asp Tyr Ser Gly Asn Thr Pro Leu Val Phe Gly Lys Gly Thr Arg Leu
      115             120             125
Ser Val Ile Ala Asn Ile Gln Asn Pro Asp Pro Ala Leu Tyr Gln Leu
      130             135             140
Arg Asp Ser
145      147

```

<210> 1078

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1078

```

Met Phe Gln Gly Ser Asn Ile Leu Phe Leu Leu Pro Ser Pro Gly Ile
 1              5              10              15
Thr Ser Ile Asn Asp Arg Thr Tyr Phe Leu Phe Val Met Arg Ser Asn
      20              25              30
Trp Leu Phe Leu Leu Thr Cys Leu Ile Ala Phe Gln Lys Asn Asn Lys
      35              40              45
Ser Leu Lys Leu Leu Lys *
      50              54

```

<210> 1079

<211> 97

<212> PRT

<213> Homo sapiens

<400> 1079

```

Met Ile Pro Ala Phe Gly Ile Phe Arg Leu Leu Ile Ile Ile Leu Ile
 1              5              10              15
Ile Val Leu Asp Met Gly Phe Ala Leu Tyr Arg Arg Phe Phe Val Pro
      20              25              30
Glu Asp Gly Ser Pro Val Ser Phe Ala Ala His Ile Ala Gly Gly Phe
      35              40              45
Ala Gly Met Ser Ile Gly Tyr Thr Val Phe Ser Cys Phe Asp Lys Ala
      50              55              60

```

Leu Met Lys Asp Pro Arg Phe Trp Ile Ala Ile Ala Ala Tyr Leu Ala
 65 70 75 80
 Cys Val Leu Phe Ala Val Phe Phe Asn Ile Phe Leu Ser Pro Ala Asn
 85 90 95 96
 *

<210> 1080
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1080
 Met Leu Ser Ile Leu Leu Ala Thr Leu Thr Leu Ser Leu Lys Glu Lys
 1 5 10 15
 Arg Gly Glu Arg Ser Ile His Gln Pro Glu Pro Ser Glu Lys Ser Val
 20 25 30
 Cys Leu Pro Val Ser Gly Ala Asp Pro Phe Arg Gly Ser Arg Gly Arg
 35 40 45
 Gly Lys Glu Ile Arg Arg Glu Lys Asp Ile Gly Leu Leu Glu His Val
 50 55 60
 Gly Gln Glu Val Pro Arg Arg Ile Cys Glu Gln Leu Pro Asp Ser Lys
 65 70 75 80
 Ala Leu Ala Arg Pro Gln Asp Gly Pro Cys Leu Leu Asp Ile Arg Lys
 85 90 95
 Pro Lys Gly Gln Asn Lys Asn Thr Cys Leu Val Gly Glu Gly Ser Leu
 100 105 110
 Arg Gly His Gln Val Gly Gln Ile Pro Leu Val Thr His Leu Trp Arg
 115 120 125
 Leu Pro Gln Lys Cys *
 130 133

<210> 1081
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 1081
 Met Lys Ile Leu Val Ala Phe Leu Val Val Leu Thr Ile Phe Gly Ile
 1 5 10 15
 Gln Ser His Gly Tyr Glu Val Phe Asn Ile Ile Ser Pro Ser Asn Asn
 20 25 30
 Gly Gly Asn Val Gln Glu Thr Val Thr Ile Asp Asn Glu Lys Asn Thr
 35 40 45
 Ala Ile Ile Asn Ile His Ala Gly Ser Cys Ser Ser Thr Thr Ile Phe
 50 55 60
 Asp Tyr Lys His Gly Tyr Ile Ala Ser Arg Val Leu Ser Arg Arg Ala
 65 70 75 80
 Cys Phe Ile Leu Lys Met Asp His Gln Asn Ile Pro Pro Leu Asn Asn
 85 90 95
 Leu Gln Trp Tyr Ile Tyr Glu Lys Gln Ala Leu Asp Asn Met Phe Ser
 100 105 110
 Ser Lys Tyr Thr Trp Val Lys Tyr Asn Pro Leu Glu Ser Leu Ile Lys

```

      115              120              125
Asp Val Asp Trp Phe Leu Leu Gly Ser Pro Ile Glu Lys Leu Cys Lys
      130              135              140
His Ile Pro Leu Tyr Lys Gly Glu Val Val Glu Asn Thr His Asn Val
      145              150              155              160
Gly Ala Gly Gly Cys Ala Lys Ala Gly Leu Leu Gly Ile Leu Gly Ile
      165              170              175
Ser Ile Cys Ala Asp Ile His Val *
      180              184

```

```

<210> 1082
<211> 285
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(285)
<223> Xaa = any amino acid or nothing

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```

      <400> 1082
Met Val Ile Ala Leu Ile Ile Phe Leu Arg Ser Pro Ala Met Ala Gly
  1              5              10              15
Gly Leu Phe Ala Ile Glu Arg Glu Phe Phe Glu Leu Gly Leu Tyr
      20              25              30
Asp Pro Gly Leu Gln Ile Trp Gly Gly Glu Asn Phe Glu Ile Ser Tyr
      35              40              45
Lys Ile Trp Gln Cys Gly Gly Lys Leu Leu Phe Xaa Pro Cys Ser Arg
  50              55              60
Val Gly His Ile Tyr Arg Leu Glu Gly Trp Gln Gly Asn Pro Pro Pro
  65              70              75              80
Ile Tyr Val Gly Ser Ser Pro Thr Leu Lys Asn Tyr Val Arg Val Val
      85              90              95
Glu Val Trp Trp Asp Glu Tyr Lys Asp Tyr Phe Tyr Ala Ser Arg Pro
      100              105              110
Glu Ser Gln Ala Leu Pro Tyr Gly Asp Ile Ser Glu Leu Lys Lys Phe
      115              120              125
Arg Glu Asp His Asn Cys Lys Ser Phe Lys Trp Phe Met Glu Glu Ile
      130              135              140
Ala Tyr Asp Ile Thr Ser His Tyr Pro Leu Pro Pro Lys Asn Val Asp
  145              150              155              160
Trp Gly Glu Ile Arg Gly Phe Glu Thr Ala Tyr Cys Ile Asp Ser Met
      165              170              175
Gly Lys Thr Asn Gly Gly Phe Val Glu Leu Gly Pro Cys His Arg Met
      180              185              190
Gly Gly Asn Gln Leu Phe Arg Ile Asn Glu Ala Asn Gln Leu Met Gln
      195              200              205
Tyr Asp Gln Cys Leu Thr Lys Gly Ala Asp Gly Ser Lys Val Met Ile
      210              215              220
Thr His Cys Asn Leu Asn Glu Phe Lys Glu Trp Gln Tyr Phe Lys Asn
  225              230              235              240
Leu His Arg Phe Thr His Ile Pro Ser Gly Lys Cys Leu Asp Arg Ser
      245              250              255
Glu Val Leu His Gln Val Phe Ile Ser Asn Cys Asp Ser Ser Lys Thr
      260              265              270
Thr Gln Lys Trp Glu Met Asn Asn Ile His Ser Val *
      275              280              284

```

<210> 1083
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1083
 Met Phe Trp Phe Leu Asn Ile Phe Ile Leu Ile Leu Ser Lys His Ser
 1 5 10 15
 Ser Lys Ser Leu Ser Leu Gln Leu Pro Glu Val Leu Leu Leu Phe Leu
 20 25 30
 Cys Gln Phe Cys Leu Arg Leu His Pro Val Arg Gly Leu Arg Leu His
 35 40 45
 Phe Lys Ala Lys Leu Ala Asn His His Val Ile Cys Ile Gly Leu Gly
 50 55 60
 Phe Phe Leu Phe Val Ser Val Leu *
 65 70 72

<210> 1084
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1084
 Met Ile Phe Gly Thr Asp Cys Cys Ala Leu Ser Lys Tyr Met Trp Ala
 1 5 10 15
 Phe Val Phe Phe Leu Ile Lys Ala Arg Trp Arg Glu Lys Asn Pro Cys
 20 25 30
 Phe Asp Asp Ser Leu Arg Pro Glu Gln Cys Leu Leu Asp Glu Gly Ser
 35 40 45
 Leu Glu Lys Arg Tyr Ser Met *
 50 55

<210> 1085
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1085
 Met Gln Ile Phe Leu Leu Leu Tyr Ala Leu Gly Arg Phe Val Leu Leu
 1 5 10 15
 Val Thr Phe Ser Pro Leu Val Leu Ser Leu Ser Tyr Pro Val Leu Val
 20 25 30
 Ser Phe Tyr Leu Arg Tyr Pro Ser Val Leu Phe Val Phe Leu His Asn
 35 40 45
 Val Val Ser Leu Val Phe Gly Tyr Pro Leu Gln Asn Gln Gln Gly Leu
 50 55 60
 Ile His Pro *
 65 67

<210> 1086
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1086
 Met Cys Pro Phe Met Pro Pro Pro Gly Leu Leu Arg Leu Phe Gln Ile
 1 5 10 15
 Val Phe Trp Val Glu His Pro Gly Ser Val Asn Pro Phe Glu Arg Ser
 20 25 30
 Thr Ile Ile Gly Arg Ser Ala Lys Leu Lys Lys Asp Leu Lys Ser His
 35 40 45
 Trp Glu Pro Gly Gln Gln Ala Leu Gln Gln Gly Leu Leu *
 50 55 60 61

<210> 1087
 <211> 294
 <212> PRT
 <213> Homo sapiens

<400> 1087
 Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
 1 5 10 15
 Leu Val Ala Glu Ala Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
 20 25 30
 Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
 35 40 45
 Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
 50 55 60
 Gly Val Lys Ala Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
 65 70 75 80
 Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
 85 90 95
 Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
 100 105 110
 Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
 115 120 125
 Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
 130 135 140
 Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
 145 150 155 160
 Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
 165 170 175
 Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
 180 185 190
 Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
 195 200 205
 Gly Glu Leu Ala Gly Gln Glu Glu Glu Ala Leu Glu Gly Leu Glu
 210 215 220
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
 225 230 235 240
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
 245 250 255

Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
 260 265 270
 Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
 275 280 285
 Gln Ala Asn Ser Thr *
 290 293

<210> 1088
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 1088
 Met Gln Trp Lys Val Thr Leu Thr Ser Arg Trp Gly Leu Leu Arg His
 1 5 10 15
 Cys Gln Val Leu Ala Gly Leu Leu His Leu Gly Asn Ile Gln Phe Ala
 20 25 30
 Ala Ser Glu Asp Glu Ala Gln Pro Cys Gln Pro Met Asp Asp Ala Lys
 35 40 45
 Tyr Ser Val Arg Thr Ala Ala Ser Leu Leu Gly Leu Pro Glu Asp Val
 50 55 60
 Leu Leu Glu Met Val Gln Ile Lys Thr Ile Arg Ala Gly Arg Gln Gln
 65 70 75 80
 Gln Val Phe Arg Lys Pro Cys Ala Arg Ala Glu Cys Asp Thr Arg Arg
 85 90 95
 Asp Cys Leu Ala Lys Leu Ile Tyr Ala Arg Leu Phe Asp Trp Leu Val
 100 105 110
 Ser Val Ile Asn Ser Ser Ile Cys Ala Asp Thr Asp Ser Trp Thr Thr
 115 120 125
 Phe Ile Gly Leu Leu Asp Val Tyr Gly Phe Glu Ser Phe Pro Asp Asn
 130 135 140
 Ser Leu Glu Gln Leu Cys Ile Asn Tyr Ala Asn Glu Lys Leu Gln Gln
 145 150 155 160
 His Phe Val Ala His Tyr Leu Arg Ala Gln Gln Glu Glu Tyr Ala Val
 165 170 175
 Glu Gly Leu Glu Trp Ser Phe Ile Asn Tyr Gln Asp Asn Gln Pro Cys
 180 185 190
 Leu Asp Leu Ile Glu Gly Ser Pro Ile Ser Ile Cys Ser Leu Ile Asn
 195 200 205
 Glu Glu Cys Arg Leu Asn Arg Pro Ser Ser Ala Ala Gln Leu Gln Thr
 210 215 220
 Arg Ile Glu Thr Ala Leu Ala Gly Ser Pro Cys Leu Gly His Asn Lys
 225 230 235 240
 Leu Ser Arg Glu Pro Ser Phe Ile Val Val His Tyr Ala Gly Pro Val
 245 250 255
 Arg Tyr His Thr Ala Gly Leu Val Glu Lys Asn Lys Asp Pro Ile Pro
 260 265 270
 Pro Glu Leu Thr Arg Leu Leu Gln Gln Ser Gln Asp Pro Leu Leu Met
 275 280 285
 Gly Leu Phe Pro Thr Asn Pro Lys Glu Lys Thr Gln Glu Glu Pro Pro
 290 295 300
 Gly Gln Ser Arg Ala Pro Val Leu Thr Val Val Ser Lys Phe Lys Ala
 305 310 315 320
 Ser Leu Glu Gln Leu Leu Gln Val Leu His Ser Thr Thr Pro His Tyr
 325 330 335
 Ile Arg Cys Ile Met Pro Asn Ser Gln Gly Gln Ala Gln Thr Phe Leu

```

          340          345          350
Gln Glu Glu Val Leu Ser Gln Leu Glu Ala Cys Gly Leu Val Glu Thr
          355          360          365
Ile His Ile Ser Ala Ala Gly Phe Pro Ile Arg Val Ser His Arg Asn
          370          375          380
Phe Val Glu Arg Tyr Lys Leu Leu Arg Arg Leu His Pro Cys Thr Ser
          385          390          395          400
Ser Gly Pro Asp Ser Pro Tyr Pro Ala Lys Gly Leu Pro Glu Trp Cys
          405          410          415
Pro His Ser Glu Glu Ala Thr Leu Glu Pro Leu Ile Gln Asp Ile Leu
          420          425          430
His Thr Leu Pro Val Leu Thr Gln Ala Ala Ala Ile Thr Gly Asp Ser
          435          440          445
Ala Glu Ala Met Pro Ala Pro Met His Cys Gly Arg Thr Lys Val Phe
          450          455          460
Met Thr Asp Ser Met Leu Glu Leu Leu Glu Cys Gly Ala
          465          470          475          477

```

<210> 1089
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

          <400> 1089
Met Ala Ala Gly Val Ser Ser Val Leu Leu Leu Leu Phe Thr Leu Met
  1          5          10          15
Glu Ser Gly Leu Lys His Arg Val Trp Glu Ser Trp Gln Leu Phe Thr
          20          25          30
Ser Trp Leu Ala Phe Cys Ser Pro Ser Phe Ser Val Val Phe Thr Cys
          35          40          45
Ser Tyr Ser Leu Ser Ser Trp Gly Leu Lys Gly Ile Ser Ser Arg Thr
          50          55          60
Arg *
65

```

<210> 1090
 <211> 185
 <212> PRT
 <213> Homo sapiens

```

          <400> 1090
Met Leu Trp Leu Leu Phe Phe Leu Val Thr Ala Ile His Ala Glu Leu
  1          5          10          15
Cys Gln Pro Gly Ala Glu Asn Ala Phe Lys Val Arg Leu Ser Ile Arg
          20          25          30
Thr Ala Leu Gly Asp Lys Ala Tyr Ala Trp Asp Thr Asn Glu Glu Tyr
          35          40          45
Leu Phe Lys Ala Met Val Ala Phe Ser Met Arg Lys Val Pro Asn Arg
          50          55          60
Glu Ala Thr Glu Ile Ser His Val Leu Leu Cys Asn Val Thr Gln Arg
          65          70          75          80
Val Ser Phe Trp Phe Val Val Thr Asp Pro Ser Lys Asn His Thr Leu
          85          90          95

```



```

Pro Ala Val Glu Val Gln Ser Ala Ile Arg Met Asn Lys Asn Arg Ile
      100                      105                      110
Asn Asn Ala Phe Phe Leu Asn Asp Gln Thr Leu Glu Phe Leu Lys Ile
      115                      120                      125
Pro Ser Thr Leu Ala Pro Pro Met Asp Pro Ser Val Pro Ile Trp Ile
      130                      135                      140
Ile Ile Phe Gly Val Ile Phe Cys Ile Ile Ile Val Ala Ile Ala Leu
145                      150                      155                      160
Leu Ile Leu Ser Gly Ile Trp Gln Arg Arg Arg Lys Asn Lys Glu Pro
      165                      170                      175
Ser Glu Val Asp Asp Ala Glu Glu *
      180                      184

```

```

<210> 1091
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1091
Met Leu Gly Gly Asn Phe Leu Met Phe Leu Pro Pro Leu Gln Arg Leu
 1                      5                      10                      15
Cys Ser Asn Leu Leu Ser Tyr Val Ile Pro Asn Asp Phe Ser Val Met
      20                      25                      30
Ser Cys Phe Ile Lys Ala Ser Leu Asn Tyr Thr Leu Leu Ile *
      35                      40                      45 46

```

```

<210> 1092
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1092
Met Val Leu Trp Asn Leu Met Leu His Ser Leu Ser Ala Val Thr Tyr
 1                      5                      10                      15
Pro Pro Asp Leu Val Ser Trp Asn Leu His Phe Lys Gln Asn Pro Asp
      20                      25                      30
His Ser Pro Leu Pro Gln Leu Thr Trp Glu Val Leu Pro *
      35                      40                      45

```

```

<210> 1093
<211> 64
<212> PRT
<213> Homo sapiens

```

```

<400> 1093
Met Thr Val Ser Phe Cys Cys Cys Trp Ile Leu Ala Val Leu Pro Ser
 1                      5                      10                      15
Pro Pro Leu Tyr Gln Asp Leu Val Gly Ser Lys Leu Glu Ile Gln Ala
      20                      25                      30
Ala Gly Asp Pro Met Pro Ala Ala Ser Arg Leu Phe His Glu Arg Gln

```

35 40 45
 Ser Leu Pro Gly Ala Pro Ala Thr Ser Ala Ser Pro Ser Val Leu *
 50 55 60 63

<210> 1094
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1094
 Met His Phe Leu Ala Thr Phe Ala Leu Phe Phe Ile Phe Gly Val Phe
 1 5 10 15
 Phe Leu Phe Ala Val Leu Thr Asn Leu Leu Leu Ala Glu Glu Val Asn
 20 25 30
 Ile Arg Gly Gly Asn Phe Leu Gly Ser Phe Leu Val His Thr Leu Phe
 35 40 45
 Leu Asp Gln Val Pro Gly Glu Ile Thr His Asp Ser His Leu Val Leu
 50 55 60
 Ala Ile Thr Ile Asn Thr Ala Ser Pro Lys Phe Ser Ser Ser Ile Phe
 65 70 75 80
 Phe Tyr Gln Leu *
 84

<210> 1095
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1095
 Met Ala Ser His Gly Glu Glu Asp Arg His Trp Leu Arg Ala Cys Thr
 1 5 10 15
 Trp Ile Trp Ala Leu Ser Leu Thr Leu Ser Val Ser Ser Ser Val Gly
 20 25 30
 Trp Arg Arg Gly Gly Cys Arg Trp Leu Gly Arg Arg Asn Ala Thr Val
 35 40 45
 Pro Arg Asn Ser Pro His Gly Thr Ser Cys Leu His Cys Val Leu Asp
 50 55 60
 Ile Pro Ala Lys Cys Gly Arg Lys Arg Ser Gly Glu Gly Thr Phe Gln
 65 70 75 80
 Ser Leu Leu Leu Phe Cys Thr Ala *
 85 88

<210> 1096
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1096
 Met Phe Val Ile Ala Phe Leu Ser Pro Leu Ser Leu Ile Phe Leu Ala
 1 5 10 15

```

Lys Phe Leu Lys Lys Ala Asp Thr Arg Asp Ser Arg Gln Ala Cys Leu
      20      25      30
Ala Ala Ser Leu Ala Leu Ala Leu Asn Gly Val Phe Thr Asn Thr Ile
      35      40      45
Lys Leu Ile Val Gly Arg Pro Arg Pro Asp Phe Phe Tyr Arg Cys Phe
      50      55      60
Pro Asp Gly Leu Ala His Ser Asp Leu Met Cys Thr Gly Asp Lys Asp
      65      70      75      80
Val Val Asn Glu Gly Arg Lys Ser Phe Pro Ser Gly His Ser Ser Phe
      85      90      95
Ala Phe Ala Gly Leu Ala Phe Ala Ser Phe Tyr Leu Ala Gly Lys Leu
      100     105     110
His Cys Phe Thr Pro Gln Gly Arg Gly Lys Ser Trp Arg Phe Cys Ala
      115     120     125
Phe Leu Ser Pro Leu Leu Phe Ala Ala Val Ile Ala Leu Ser Arg Thr
      130     135     140
Cys Asp Tyr Lys His His Trp Gln Gly Pro Phe Lys Trp *
      145     150     155     157

```

```

<210> 1097
<211> 88
<212> PRT
<213> Homo sapiens

```

```

<400> 1097
Met Ile Thr Thr Ser Leu Lys Ser Ser Ser Arg Leu Cys Cys Phe Arg
  1      5      10      15
Arg Ser Ile Phe Phe Thr Ala Thr Cys Phe Pro Val Cys Phe Ser Val
      20      25      30
Ala Met His Thr Met Pro Val Glu Pro Ser Pro Ile Leu Ile Lys Leu
      35      40      45
Ala Lys Tyr Ser Leu Gly Ser Pro Gly Leu Thr Thr Ser Cys Arg Ala
      50      55      60
Ala Arg Asn Cys Ser Trp Asp Thr Leu Glu Gly Cys Trp Ser Glu Glu
      65      70      75      80
Glu Pro Gln Leu Gly Gly Gly *
      85      87

```

```

<210> 1098
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1098
Met Met Ser Gly Trp Leu Leu Arg Ala Ala Ile Cys Arg Gly Leu Leu
  1      5      10      15
Ser Ser Glu Ser Leu Thr Phe Thr Ser Ala Pro His Ser Ile Ser Ile
      20      25      30
Ala Val Thr Cys Arg Asp Gly Asn Leu Gln Thr Gly Tyr Arg Pro Thr
      35      40      45
His Val Val Phe Leu Ser Thr Ala Arg *
      50      55      57

```

<210> 1099
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1099
 Met Ala Ser Glu Pro Cys Trp Trp Ala Gly Met Leu Pro Cys Ala Cys
 1 5 10 15
 Ala Gly Leu Arg Arg Cys Ser His Ser Arg Phe Leu Gln Arg Gly His
 20 25 30
 Gly Leu His Ser Leu Met Gly Ser Leu Pro Ala Pro Ile Ser Pro Pro
 35 40 45
 Trp Thr His Pro Trp Gly Ile Ile Leu Pro Trp Pro Ile Arg Gly His
 50 55 60
 Pro Ser Val Pro Ile Arg Leu *
 65 70 71

<210> 1100
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1100
 Met Ser Phe Phe Leu Ile Leu Gly Val Gly Ser Cys Leu Ser Tyr Ser
 1 5 10 15
 Leu Val Pro Leu Ile Ile Leu Ser Phe Cys His Phe Tyr Pro Glu Ser
 20 25 30
 Val Gly Cys Pro Asp Ala Pro Ser Pro Arg Val Arg Gly Arg Val
 35 40 45 47

<210> 1101
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1101
 Met Arg Pro Leu Lys Pro Gly Ala Pro Leu Pro Ala Leu Phe Leu Leu
 1 5 10 15
 Ala Leu Ala Leu Ser Pro His Gly Ala His Gly Arg Pro Arg Gly Arg
 20 25 30
 Arg Gly Ala Arg Val Thr Asp Lys Glu Pro Lys Pro Leu Leu Phe Leu
 35 40 45
 Pro Ala Ala Gly Ala Gly Arg Thr Pro Ser Gly Ser Arg Ser Ala Glu
 50 55 60
 Ile Phe Pro Arg Asp Ser Asn Leu Lys Asp Lys Phe Ile Lys His Phe
 65 70 75 80
 Thr Gly Pro Val Thr Phe Ser Pro Glu Cys Ser Lys His Phe His Arg
 85 90 95
 Leu Tyr Tyr Asn Thr Arg Glu Cys Ser Thr Pro Ala Tyr Tyr Lys Arg
 100 105 110

Cys Ala Arg Leu Leu Thr Arg Leu Ala Val Ser Pro Leu Cys Ser Gln
 115 120 125
 Thr *
 129

<210> 1102
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 1102
 Met Gln Phe Val Leu Leu Arg Thr Leu Ala Tyr Ile Pro Thr Pro Ile
 1 5 10 15
 Tyr Phe Gly Ala Val Ile Asp Thr Thr Cys Met Leu Trp Gln Gln Glu
 20 25 30
 Cys Gly Val Gln Gly Ser Cys Trp Glu Tyr Asn Val Thr Ser Phe Arg
 35 40 45
 Phe Val Tyr Phe Gly Leu Ala Ala Val Leu Lys Tyr Val Gly Cys Ile
 50 55 60
 Phe Ile Leu Leu Ala Trp Tyr Ser Ile Lys Asp Thr Glu Asp Glu Gln
 65 70 75 80
 Pro Arg Leu Arg Gln Lys Lys Ile Cys Leu Ser Thr Leu Ser Asp Thr
 85 90 95
 Met Thr Gln Pro Asp Ser Ala Gly Val Val Ser Cys Pro Leu Phe Thr
 100 105 110
 Pro Asp Gly Glu Ile His Lys Lys Thr Gly Leu Arg Lys Arg Asp Pro
 115 120 125
 Gly Gly Thr Thr Glu Pro Thr Pro Gly Pro Leu Arg Lys Arg Pro Leu
 130 135 140
 Cys Thr Leu Glu Ala Pro Arg Leu Pro Asn Lys Ala Pro Phe Thr Leu
 145 150 155 160
 Glu Leu Ala Leu Leu Arg Val Arg Leu *
 165 169

<210> 1103
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1103
 Met Leu Ile Ile Phe Asn Ala Val Trp Val Arg Cys Leu Lys Pro Lys
 1 5 10 15
 Ile Pro Ala Arg Pro Thr Thr Asn Asp Thr Met Ile Ser Lys Thr Lys
 20 25 30
 Gln His Thr Gln Tyr Thr Ser Tyr Ala Pro Ser Trp Pro Trp Leu Gly
 35 40 45
 Pro Ala Ala Cys Gln His Gly Pro Leu Ile Ser His Thr Pro
 50 55 60 62

<210> 1104
 <211> 83

<212> PRT

<213> Homo sapiens

<400> 1104

```

Met Lys Gln Leu Ser Pro Leu Pro Leu Pro Trp Val Leu Cys Phe Leu
 1          5          10          15
Trp Lys Pro Ser Lys Leu Ser Val Leu Ser Phe Ala Ser Pro Pro Ser
      20          25          30
Thr Lys Pro Ser Gln Gln Ala Gly Leu Val Cys Ser Leu Ile Arg Val
      35          40          45
Ser Thr Ser Ser Thr Pro Ala Cys Thr Phe Tyr Leu Pro Val Asn Ala
 50          55          60
Lys Cys Arg Ser Cys Pro Leu Asn Asn Pro Pro Trp Glu Val Pro Trp
 65          70          75          80
Ile Asn *
      82

```

<210> 1105

<211> 124

<212> PRT

<213> Homo sapiens

<400> 1105

```

Met Val Phe Thr Val Thr Leu Lys Leu Ala Leu Asp Thr His Tyr Trp
 1          5          10          15
Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser Leu Leu Phe Tyr Val
      20          25          30
Val Phe Ser Leu Leu Trp Gly Gly Val Ile Trp Pro Phe Leu Asn Tyr
      35          40          45
Gln Arg Met Tyr Tyr Val Phe Ile Gln Met Leu Ser Ser Gly Pro Ala
 50          55          60
Trp Leu Ala Ile Val Leu Leu Val Thr Ile Ser Leu Leu Pro Asp Val
 65          70          75          80
Leu Lys Lys Val Leu Cys Arg Gln Leu Trp Pro Thr Ala Thr Glu Arg
      85          90          95
Val Gln Thr Lys Ser Gln Cys Leu Ser Val Glu Gln Ser Thr Ile Phe
      100          105          110
Met Leu Ser Gln Thr Ser Ser Ser Leu Ser Phe *
      115          120          123

```

<210> 1106

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1106

```

Met Ser Phe Ser Ala Tyr Gln Thr Ala Phe Ile Cys Leu Gly Leu Leu
 1          5          10          15
Val Gln Gln Ile Ile Phe Phe Leu Gly Thr Thr Ala Leu Ala Phe Leu
      20          25          30
Val Leu Met Pro Val Leu His Gly Arg Asn Leu Leu Leu Phe Arg Ser
      35          40          45

```

```

Leu Glu Ser Ser Trp Pro Phe Trp Leu Thr Leu Ala Leu Ala Val Ile
  50                      55                      60
Leu Gln Asn Met Ala Ala His Trp Val Phe Leu Glu Thr His Asp Gly
  65                      70                      75                      80
His Pro Gln Leu Thr Asn Arg Arg Val Leu Tyr Ala Ala Thr Phe Leu
                      85                      90                      95
Leu Phe Pro Leu Asn Val Leu Val Gly Ala Met Val Ala Thr Trp Arg
                      100                      105                      110
Val Leu Leu Ser Ala Leu Tyr Asn Ala Ile His Leu Gly Gln Met Asp
                      115                      120                      125
Leu Ser Leu Leu Pro Pro Arg Ala Ala Thr Leu Asp Pro Gly Tyr Tyr
  130                      135                      140
Thr Tyr Arg Asn Phe Leu Lys Ile Glu Val Ser Gln Ser His Pro Ala
  145                      150                      155                      160
Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
                      165                      170                      175
Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
                      180                      185                      190
Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
  195                      200                      205
Arg Pro Gly Ala Ser Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
  210                      215                      220
Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
  225                      230                      235                      240
Gly Ala Asn Gly Ala Gln Pro *
                      245                      247

```

```

<210> 1107
<211> 121
<212> PRT
<213> Homo sapiens

```

```

<400> 1107
Met Met Leu Ala Phe Thr Met Trp Asn Pro Trp Ile Ala Met Cys Leu
  1                      5                      10                      15
Leu Gly Leu Ser Tyr Ser Leu Leu Ala Cys Ala Leu Trp Pro Met Val
                      20                      25                      30
Ala Phe Val Val Pro Glu His Gln Leu Gly Thr Ala Tyr Gly Phe Met
  35                      40                      45
Gln Ser Ile Gln Asn Leu Gly Leu Ala Ile Ile Ser Ile Ile Ala Gly
  50                      55                      60
Met Ile Leu Asp Ser Arg Gly Tyr Leu Phe Leu Glu Val Phe Phe Ile
  65                      70                      75                      80
Ala Cys Val Ser Leu Ser Leu Leu Ser Val Val Leu Leu Tyr Leu Val
                      85                      90                      95
Asn Arg Ala Gln Gly Gly Asn Leu Asn Tyr Ser Ala Arg Gln Arg Glu
                      100                      105                      110
Glu Ile Lys Phe Ser His Thr Glu *
                      115                      120

```

```

<210> 1108
<211> 53
<212> PRT
<213> Homo sapiens

```

<400> 1108

```

Met Phe Lys Asn Thr Ser Gly Tyr Thr Glu Arg Val Ala Val Trp Leu
 1           5           10           15
Gly Val Glu Ile Phe Cys Leu Leu Met Met Ser Ser Val Leu Val Pro
           20           25           30
Leu Phe Tyr Phe Leu Met Leu Phe Gly Asn Phe Leu Gln Asn Leu Ser
           35           40           45
Leu Gly Ser Arg *
           50           52

```

<210> 1109

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1109

```

Met His Val Val Ile Val Leu Lys Ala Leu Val Ala Val Gln Ile Leu
 1           5           10           15
Leu Ser Ile Lys Glu Tyr Thr Leu Glu Arg Asn His Met His Val Ile
           20           25           30
Ser Val Ile Lys Val Leu Val Lys Ala Gln Thr Ser Leu Asn Ile Arg
           35           40           45
Glu Tyr Thr Leu Val Lys Ser Leu Ile Ile Ala Ile Val Val Arg Lys
           50           55           60
Pro Ser Val Arg Val Leu Thr Leu Phe Phe Ile Arg Glu Phe Thr Leu
           65           70           75           80
Glu Lys Asn Tyr Tyr Leu Cys Thr Gln Cys Ser Lys Ser Phe Ser Gln
           85           90           95
Ile Ser Asp Leu Ile Lys His Gln Arg Ile His Thr Gly Glu Lys Pro
           100          105          110
Tyr Lys Cys Ser Glu Cys Arg Lys Ala Phe Ser Gln Cys Ser Ala Leu
           115          120          125
Thr Leu His Gln Arg Ile His Thr Gly Lys Lys Pro Asn Pro Cys Asp
           130          135          140
Glu Cys Gly Lys Ser Phe Ser Arg Arg Ser Asp Leu Ile Asn His Gln
           145          150          155          160
Lys Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Asp Ala Cys Gly Lys
           165          170          175
Ala Phe Ser Thr Cys Thr Asp Leu Ile Glu His Gln Lys Thr His Ala
           180          185          190
Glu Glu Lys Pro Tyr Gln Cys Val Gln Cys Ser Arg Ser Cys Ser Gln
           195          200          205
Leu Ser Glu Leu Thr Ile His Glu Glu Val His Cys Gly Glu Asp Ser
           210          215          220
Gln Asn Val Met Asn Val Arg Lys Pro Leu Val Cys Thr Pro Thr Leu
           225          230          235          240
Phe Ser Thr Arg Asp Thr Val Pro Glu Lys Asn Leu Met Asn Ala Val
           245          250          255
Asp Tyr *
           258

```

<210> 1110

<211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1110
 Met Thr Cys Ser Leu Leu Ser Leu Leu Asp Ala Val Cys Ser Ser Phe
 1 5 10 15
 Val Gln Ala Phe Cys Ser Arg Asp Pro Glu Arg Trp Pro Ala Ile Ser
 20 25 30
 Pro His Ser Leu Ser Gly Ala Phe Tyr Phe Leu Asn Val Cys *
 35 40 45 46

<210> 1111
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1111
 Met Ser Leu Arg Ala Pro Ser Val Arg Ile Phe Val Tyr Leu Leu Phe
 1 5 10 15
 Arg Leu His Thr Gln Arg Gly Leu Leu Ala Gly Arg Arg Gln Trp Gly
 20 25 30
 Pro Cys Pro Leu Ser Phe Ser His Phe Leu His Leu Ser Val Leu Ser
 35 40 45
 Cys Ser Thr Gln Ile Tyr Thr Glu Gly Ser Trp Pro Gly Trp Ala Ser
 50 55 60
 Leu Gly Ala Pro Ser Val His Trp Ala Arg Phe Pro Cys Trp Leu Gln
 65 70 75 80
 Ala Met Gly Ser Phe Ser Pro Leu Cys Pro Ser Cys *
 85 90 92

<210> 1112
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1112
 Met Met Pro Thr Asn Leu Ala His Leu Val Phe Trp Gln Ala Leu Leu
 1 5 10 15
 Ala Ser Gly Arg Phe Ser Leu Met Glu His Tyr Pro Pro Asn Val Gln
 20 25 30
 Ser Asn Arg Gly Ile Thr His Tyr Met Leu Pro Arg Gly Tyr Ile Leu
 35 40 45
 Gly Leu Leu Tyr Ser Ser Ala Gly Asn Thr Gly Thr Ser Arg Pro Arg
 50 55 60
 Arg Thr His Tyr Gly Thr *
 65 70

<210> 1113
 <211> 47

<212> PRT

<213> Homo sapiens

<400> 1113

```

Met Tyr Leu Val Lys Gly Leu Leu Ile Gly Leu His Ser Ile Leu Leu
 1           5           10           15
Cys Leu Arg Glu Gln Gly Gly Leu Arg Arg Val Glu Arg Asp Glu Gly
          20           25           30
Thr Ala Ser Trp Tyr Ser Ser Gln Asn Thr Tyr Asn Ile Tyr *
          35           40           45 46

```

<210> 1114

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1114

```

Met Thr Val Leu Ser Phe Gln Tyr Glu Tyr Leu Ile Phe Leu Leu Thr
 1           5           10           15
Ser Leu Thr Thr Ile Tyr Asn Thr Thr Leu Ser Arg Ser Gly Asp Gly
          20           25           30
Arg Arg Thr Cys Leu Val Phe Asn Leu Arg Glu Lys Val Phe Cys Phe
          35           40           45
Ser Thr Leu Gly Ile Ile *
          50           54

```

<210> 1115

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1115

```

Met Asn Val Ile Cys Leu Thr Leu Cys Leu Val Ser Ser Lys Cys Ser
 1           5           10           15
Val Gly Gly Thr Ala Ser Phe Val Leu Leu Cys Phe Ser Leu Pro Val
          20           25           30
Ser Ser Arg Arg Arg Ala Phe Gln Glu Ser Gln Gly Trp Thr Glu Pro
          35           40           45
Arg Gly Gly Pro Ser Gly Leu Pro His Thr Glu Pro Gly Phe Met Ala
          50           55           60
Ser Ala Ala Thr Arg Gly Leu Ser Gly Cys Gly Ser Gln Ala Ala Val
          65           70           75           80
Leu Thr *
          82

```

<210> 1116

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1116

```

Met Val Leu Leu Val Val Gly Asn Leu Val Asn Trp Ser Phe Ala Leu
 1           5           10           15
Phe Gly Leu Ile Tyr Arg Pro Arg Asp Phe Ala Ser Tyr Met Leu Gly
           20           25           30
Ile Phe Ile Cys Asn Leu Leu Leu Tyr Leu Ala Phe Tyr Ile Ile Met
           35           40           45
Lys Leu Arg Ser Ser Glu Lys Val Leu Pro Val Pro Leu Phe Cys Ile
           50           55           60
Val Ala Thr Ala Val Met Trp Ala Ala Ala Leu Tyr Phe Phe Phe Gln
           65           70           75           80
Asn Leu Ser Ser Trp Glu Gly Thr Pro Ala Glu Ser Arg Glu Lys Asn
           85           90           95
Arg Glu Cys Ile Leu Leu Asp Phe Phe Asp Asp His Asp Ile Trp His
           100          105          110
Phe Leu Ser Ala Thr Ala Leu Phe Phe Ser Phe Leu Asp Leu Leu Thr
           115          120          125
Leu Asp Asp Asp Leu Asp Val Val Arg Arg Asp Gln Ile Pro Val Phe
           130          135          140          144

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<210> 1117

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1117

```

Met Gly Asp Phe Ala Gly Val Asp Phe Val Phe Leu Val Val Cys Phe
 1           5           10           15
Ala Gln Arg Gln Gly Ala Ala Glu Ala Val Gly Ala Val Leu Ala Val
           20           25           30
Leu Leu Cys Asp Thr Leu Leu Gly Val Thr Arg Leu Glu Gly Val Ile
           35           40           45
His Leu Pro Leu Tyr Phe Gly Leu Ser Gly Ile Glu Val Ile Gln Gln
           50           55           60
Ala His Asn Arg Gly Ser Ser Arg Phe Gln Leu Leu Ile Arg Trp Arg
           65           70           75           80
Glu Asp Glu Asp Arg Trp Cys Ser His Ser Ser Phe Asp Val His Leu
           85           90           95
Gly Pro Leu Ala Glu Arg Pro His Val Ser Thr Gln Leu Leu Thr Val
           100          105          110
Ile Ser Cys Lys Ile Phe Arg Leu Gln Ala Thr Asp Cys Glu Ser Lys
           115          120          125
Phe Cys Pro Arg Ser Ser Ala Ala Glu Pro *
           130          135          138

```

<210> 1118

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1118
 Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala
 1 5 10 15
 Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg
 20 25 30
 Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp
 35 40 45
 Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro
 50 55 60
 His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln
 65 70 75 80
 Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys
 85 90 95
 Ala Glu Gly Thr Val Glu Leu Lys Arg Pro Gly Gln Ser His Ala Ala
 100 105 110
 Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr
 115 120 125
 Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro
 130 135 140
 His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg
 145 150 155 160
 Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His
 165 170 175
 Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro
 180 185 190
 Asp *
 193

<210> 1119
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1119
 Met Leu Val Leu Leu Pro Arg Ser Lys Ala Met Pro Leu Leu Ser Val
 1 5 10 15
 Asn Val Thr Leu Ala Phe Phe Pro Arg Asn Lys Glu Ile Val Lys Tyr
 20 25 30
 Leu Leu Asn Gln Gly Ala Asp Val Thr Leu Arg Ala Lys Asn Gly Tyr
 35 40 45
 Thr Ala Phe Asp Leu Val Met Leu Leu Asn Asp Pro Asp Ile Phe Gly
 50 55 60
 Gly Glu Leu Ile Gly Phe Leu Ser Val Val Thr Glu Leu Val Arg Leu
 65 70 75 80
 Leu Ala Ser Val Phe Met Gln Val Asn Lys Asp Ile Gly Arg Arg Ser
 85 90 95
 His Gln Leu Pro Leu Pro His Ser Lys Val Pro Thr Ala Leu Glu His
 100 105 110
 Pro Ser Ala Ala Arg *
 115 117

<210> 1120
 <211> 842
 <212> PRT

<213> Homo sapiens

<400> 1120

```

Met Leu Trp Gly Ser Gly Lys Cys Lys Ala Leu Thr Lys Phe Lys Phe
 1      5      10      15
Val Phe Phe Leu Arg Leu Ser Arg Ala Gln Gly Gly Leu Phe Glu Thr
      20      25      30
Leu Cys Asp Gln Leu Leu Asp Ile Pro Gly Thr Ile Arg Lys Gln Thr
      35      40      45
Phe Met Ala Met Leu Leu Lys Leu Arg Gln Arg Val Leu Phe Leu Leu
      50      55      60
Asp Gly Tyr Asn Glu Phe Lys Pro Gln Asn Cys Pro Glu Ile Glu Ala
      65      70      75      80
Leu Ile Lys Glu Asn His Arg Phe Lys Asn Met Val Ile Val Thr Thr
      85      90      95
Thr Thr Glu Cys Leu Arg His Ile Arg Gln Phe Gly Ala Leu Thr Ala
      100      105      110
Glu Val Gly Asp Met Thr Glu Asp Ser Ala Gln Ala Leu Ile Arg Glu
      115      120      125
Val Leu Ile Lys Glu Leu Ala Glu Gly Leu Leu Leu Gln Ile Gln Lys
      130      135      140
Ser Arg Cys Leu Arg Asn Leu Met Lys Thr Pro Leu Phe Val Val Ile
      145      150      155      160
Thr Cys Ala Ile Gln Met Gly Glu Ser Glu Phe His Ser His Thr Gln
      165      170      175
Thr Thr Leu Phe His Thr Phe Tyr Asp Leu Leu Ile Gln Lys Asn Lys
      180      185      190
His Lys His Lys Gly Val Ala Ala Ser Asp Phe Ile Arg Ser Leu Asp
      195      200      205
His Cys Gly Tyr Leu Ala Leu Glu Gly Val Phe Ser His Lys Phe Asp
      210      215      220
Phe Glu Leu Gln Asp Val Ser Ser Val Asn Glu Asp Val Leu Leu Thr
      225      230      235      240
Thr Gly Leu Leu Cys Lys Tyr Thr Ala Gln Arg Phe Lys Pro Lys Tyr
      245      250      255
Lys Phe Phe His Lys Ser Phe Gln Glu Tyr Thr Ala Gly Arg Arg Leu
      260      265      270
Ser Ser Leu Leu Thr Ser His Glu Pro Glu Glu Val Thr Lys Gly Asn
      275      280      285
Gly Tyr Leu Gln Lys Met Val Ser Ile Ser Asp Ile Thr Ser Thr Tyr
      290      295      300
Ser Ser Leu Leu Arg Tyr Thr Cys Gly Ser Ser Val Glu Ala Thr Arg
      305      310      315      320
Ala Val Met Lys His Leu Ala Ala Val Tyr Gln His Gly Cys Leu Leu
      325      330      335
Gly Leu Ser Ile Ala Lys Arg Pro Leu Trp Arg Gln Glu Ser Leu Gln
      340      345      350
Ser Val Lys Asn Thr Thr Glu Gln Glu Ile Leu Lys Ala Ile Asn Ile
      355      360      365
Asn Ser Phe Val Glu Cys Gly Ile His Leu Tyr Gln Glu Ser Thr Ser
      370      375      380
Lys Ser Ala Leu Ser Gln Glu Phe Glu Ala Phe Phe Gln Gly Lys Ser
      385      390      395      400
Leu Tyr Ile Asn Ser Gly Asn Ile Pro Asp Tyr Leu Phe Asp Phe Phe
      405      410      415
Glu His Leu Pro Asn Cys Ala Ser Ala Leu Asp Phe Ile Lys Leu Gly
      420      425      430
Phe Tyr Gly Gly Ala Met Ala Ser Trp Glu Lys Ala Ala Glu Asp Thr

```

435					440					445					
Gly	Gly	Ile	His	Met	Glu	Glu	Ala	Pro	Glu	Thr	Tyr	Ile	Pro	Ser	Arg
450					455						460				
Ala	Val	Ser	Leu	Phe	Phe	Asn	Trp	Lys	Gln	Glu	Phe	Arg	Thr	Leu	Glu
465					470				475						480
Val	Thr	Leu	Arg	Asp	Phe	Ser	Lys	Leu	Asn	Lys	Gln	Asp	Ile	Arg	Tyr
				485					490						495
Leu	Gly	Lys	Ile	Phe	Ser	Ser	Ala	Thr	Ser	Leu	Arg	Leu	Gln	Ile	Lys
			500					505					510		
Arg	Cys	Ala	Gly	Val	Ala	Gly	Ser	Leu	Ser	Leu	Val	Leu	Ser	Thr	Cys
		515					520					525			
Lys	Asn	Ile	Tyr	Ser	Leu	Met	Val	Glu	Ala	Ser	Pro	Leu	Thr	Ile	Glu
	530					535				540					
Asp	Glu	Arg	His	Ile	Thr	Ser	Val	Thr	Asn	Leu	Lys	Thr	Leu	Ser	Ile
545					550				555						560
His	Asp	Leu	Gln	Asn	Gln	Arg	Leu	Pro	Gly	Gly	Leu	Thr	Asp	Ser	Leu
				565					570						575
Gly	Asn	Leu	Lys	Asn	Leu	Thr	Lys	Leu	Ile	Met	Asp	Asn	Ile	Lys	Met
			580					585				590			
Asn	Glu	Glu	Asp	Ala	Ile	Lys	Leu	Ala	Glu	Gly	Leu	Lys	Asn	Leu	Lys
		595					600					605			
Lys	Met	Cys	Leu	Phe	His	Leu	Thr	His	Leu	Ser	Asp	Ile	Gly	Glu	Gly
	610					615					620				
Met	Asp	Tyr	Ile	Val	Lys	Ser	Leu	Ser	Ser	Glu	Pro	Cys	Asp	Leu	Glu
625					630				635						640
Glu	Ile	Gln	Leu	Val	Ser	Cys	Cys	Leu	Ser	Ala	Asn	Ala	Val	Lys	Ile
				645					650					655	
Leu	Ala	Gln	Asn	Leu	His	Asn	Leu	Val	Lys	Leu	Ser	Ile	Leu	Asp	Leu
			660					665					670		
Ser	Glu	Asn	Tyr	Leu	Glu	Lys	Asp	Gly	Asn	Glu	Ala	Leu	His	Glu	Leu
		675					680					685			
Ile	Asp	Arg	Met	Asn	Val	Leu	Glu	Gln	Leu	Thr	Ala	Leu	Met	Leu	Pro
	690				695						700				
Trp	Gly	Cys	Asp	Val	Gln	Gly	Ser	Leu	Ser	Ser	Leu	Leu	Lys	His	Leu
705					710				715						720
Glu	Glu	Val	Pro	Gln	Leu	Val	Lys	Leu	Gly	Leu	Lys	Asn	Trp	Arg	Leu
				725					730					735	
Thr	Asp	Thr	Glu	Ile	Arg	Ile	Leu	Gly	Ala	Phe	Phe	Gly	Lys	Asn	Pro
			740					745				750			
Leu	Lys	Asn	Phe	Gln	Gln	Leu	Asn	Leu	Ala	Gly	Asn	Arg	Val	Ser	Ser
		755					760					765			
Asp	Gly	Trp	Leu												

<210> 1121

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1121

```

Met Gly Leu Phe Phe Phe Ser Gly Val Gly Ser Phe Val Gly Ser
 1           5           10           15
Gly Leu Leu Ala Leu Val Ser Ile Lys Ala Ile Gly Trp Met Ser Ser
          20           25           30
His Thr Asp Phe Gly Asn Ile Asn Gly Cys Tyr Leu Asn Tyr Tyr Phe
          35           40           45
Phe Leu Leu Ala Ala Ile Gln Gly Ala Thr Leu Leu Leu Phe Leu Ile
          50           55           60
Ile Ser Val Lys Tyr Asp His His Arg Asp His Gln Arg Ser Arg Ala
          65           70           75           80
Asn Gly Val Pro Thr Ser Arg Arg Ala *
          85           89

```

<210> 1122

<211> 129

<212> PRT

<213> Homo sapiens

<400> 1122

```

Met Phe Leu Leu Phe Trp Phe Ile Leu Ser Glu Gly Cys Pro Leu Leu
 1           5           10           15
Glu Gln Leu Asn Ile Ser Trp Cys Asp Gln Val Thr Lys Asp Gly Ile
          20           25           30
Gln Ala Leu Val Arg Gly Cys Gly Gly Leu Lys Ala Leu Phe Leu Lys
          35           40           45
Gly Cys Thr Gln Leu Glu Asp Glu Ala Leu Lys Tyr Ile Gly Ala His
          50           55           60
Cys Pro Glu Leu Val Thr Leu Asn Leu Gln Thr Cys Leu Gln Ile Thr
          65           70           75           80
Asp Glu Gly Leu Ile Thr Ile Cys Arg Gly Cys His Lys Leu Gln Ser
          85           90           95
Leu Cys Ala Ser Gly Cys Ser Asn Ile Thr Asp Ala Ile Leu Asn Ala
          100          105          110
Leu Ser Gln Asn Cys Pro Arg Leu Ile Ile Leu Glu Val Ala Arg Cys
          115          120          125
Ser
129

```

<210> 1123

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1123

```

Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu
 1           5           10           15
Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Ala Glu
          20           25           30
Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu
          35           40           45
Gly Arg Ala Val Val Pro Gly Val Lys Pro Gln Asp Trp Ile Ser Ala

```

```

      50      55      60
Ala Arg Val Leu Val Asp Gly Glu Glu His Val Gly Phe Leu Lys Thr
 65      70      75      80
Asp Gly Ser Phe Val Val His Asp Ile Pro Ser Gly Ser Tyr Val Val
      85      90      95
Glu Val Val Ser Pro Ala Tyr Arg Phe Asp Pro Val Arg Val Asp Ile
      100      105      110
Thr Ser Lys Gly Lys Met Arg Ala Arg Tyr Val Asn Tyr Ile Lys Thr
      115      120      125
Ser Glu Val Val Arg Leu Pro Tyr Pro Leu Gln Met Lys Ser Ser Gly
      130      135      140
Pro Pro Ser Tyr Phe Ile Lys Arg Glu Ser Trp Gly Trp Thr Asp Phe
      145      150      155      160
Leu Met Asn Pro Met Val Met Met Met Val Leu Pro Leu Leu Ile Phe
      165      170      175
Val Leu Leu Pro Lys Val Val Asn Thr Ser Asp Pro Asp Met Arg Arg
      180      185      190
Glu Met Glu Gln Ser Met Asn Met Leu Asn Ser Asn His Glu Leu Pro
      195      200      205
Asp Val Ser Glu Phe Met Thr Arg Leu Phe Ser Ser Lys Ser Ser Gly
      210      215      220
Lys Ser Ser Ser Gly Ser Ser Lys Thr Gly Lys Ser Gly Ala Gly Lys
      225      230      235      240
Arg Arg *
      242

```

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<210> 1124
<211> 71
<212> PRT
<213> Homo sapiens

```

```

      <400> 1124
Met Leu Ser Tyr Ala His Ile Thr Leu Ala Val Leu Arg Ile Pro Ser
 1      5      10      15
Ala Thr Gly Cys Trp Arg Ala Phe Phe Thr Cys Ala Ser His Leu Thr
      20      25      30
Val Val Thr Val Phe Tyr Thr Ala Leu Leu Phe Met Tyr Val Arg Pro
      35      40      45
Gln Ala Ile Asp Ser Arg Ser Ser Asn Lys Leu Ile Ser Val Leu Tyr
      50      55      60
Thr Val Ile Thr Pro Ser Val
      65      70      71

```

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<210> 1125
<211> 48
<212> PRT
<213> Homo sapiens

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```

      <400> 1125
Met Pro Thr Leu Gly Asp Ala Leu Ile Leu Tyr Leu His Leu Val Leu
 1      5      10      15
Gly Val Ala Gly Val Leu Gln Pro Pro Gly Pro Arg Pro Ser Gln Ala
      20      25      30

```


Leu Gly Pro Thr Gly Asp Arg Ala Pro Gly Lys Trp Asn Arg Ser *
 35 40 45 47

<210> 1126
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1126
 Met Phe Leu Ile Val Leu Pro Leu Glu Ser Met Ala His Gly Leu Phe
 1 5 10 15
 His Glu Leu Gly Asn Cys Leu Gly Gly Thr Ser Val Gly Tyr Ala Ile
 20 25 30
 Val Ile Pro Thr Asn Phe Cys Ser Pro Asp Gly Gln Pro Thr Leu Leu
 35 40 45
 Pro Pro Glu His Val Gln Glu Leu Asn Leu Arg Ser Thr Gly Met Leu
 50 55 60
 Asn Ala Ile Gln Arg Phe Phe Ala Tyr His Met Ile Glu Thr Tyr Gly
 65 70 75 80
 Cys Asp Tyr Ser Thr Ser Gly Leu Ser Phe Asp Thr Leu His Ser Lys
 85 90 95
 Leu Lys Ala Phe Leu Glu Leu Arg Thr Val Asp Gly Pro Arg His Asp
 100 105 110
 Thr Tyr Ile Leu Tyr Tyr Ser Gly His Thr His Gly Thr Gly Glu Trp
 115 120 125
 Ala Leu Ala Gly Gly Asp Thr Leu Arg Leu Asp Thr Leu Ile Glu Trp
 130 135 140
 Trp Arg Glu Lys Asn Gly Ser Phe Cys Ser Pro Pro Tyr Tyr Arg
 145 150 155 159

<210> 1127
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1127
 Met Thr Gly Pro Arg Pro Met Ile Leu His Phe Ile Leu Val Ala Ser
 1 5 10 15
 Ala Ser Cys Trp Glu Val Leu Phe Cys Cys Trp Gln Pro Cys Pro Leu
 20 25 30
 Gly Ile His Ala Thr Ser Asn Ser Pro Ser Gln Leu Gln Gln Leu Ser
 35 40 45
 Cys Thr Lys Leu Pro Leu Met Phe Arg Arg Ile Leu Glu Asp Thr Ile
 50 55 60
 Phe Ala Ile Leu Tyr His Ile Ala Thr Ile Phe *
 65 70 75

<210> 1128
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1128

```

Met Gly Ala Gly Leu Ala Val Val Pro Leu Met Gly Leu Leu Glu Ser
 1           5           10           15
Ile Ala Val Ala Lys Ala Phe Ala Ser Gln Asn Asn Tyr Arg Ile Asp
           20           25           30
Ala Asn Gln Glu Leu Leu Ala Ile Gly Leu Thr Asn Met Leu Gly Ser
           35           40           45
Leu Val Ser Ser Tyr Pro Val Thr Gly Ser Phe Gly Arg Thr Ala Val
           50           55           60
Asn Ala Gln Ser Gly Val Cys Thr Pro Ala Glu Gly Leu Val Thr Glu
           65           70           75           80
Val Leu Val Leu Leu Ser Leu Asp Tyr Leu Thr Ser Leu Phe Tyr Tyr
           85           90           95
Ile Pro Lys Ser Ala Leu Ala Ala Val Ile Ile Met Ala Val Ala Pro
           100          105          110
Leu Phe Asp Thr Lys Ile Phe Arg Thr Leu Trp Arg Val Lys Arg Leu
           115          120          125
Asp Leu Leu Ser Leu Ser Val Thr Phe Leu Leu Cys
           130          135          140

```

<210> 1129

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1129

```

Met Ala Glu Ala Phe Pro Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly
 1           5           10           15
Val Phe Leu Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ser Ser
           20           25           30
Leu Gln Ala Thr Thr Ala His Gln Ile Gly Val Ser Asp Val Leu Leu
           35           40           45
Val Ala Ala Asn Thr Ser Gly Gly Val Thr Gly Lys Met Ile Ser Pro
           50           55           60
Gln Ser Ile Ala Val Ala Cys Ala Ala Thr Gly Leu Val Gly Lys Glu
           65           70           75           80
Ser Asp Leu Phe Arg Phe Thr Leu Lys His Ser Leu Phe Phe Ala Thr
           85           90           95
Ile Val Gly Leu Ile Thr Leu Ala Gln Ala Tyr Trp Phe Thr Gly Met
           100          105          110
Leu Val His *
           115

```

<210> 1130

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1130

```

Met Asn Lys Leu Leu Val Ala Ala Thr Ala Ile Leu Phe Ser Leu Gly
 1           5           10           15

```

Cys His Glu Lys Cys Lys Ile Phe Phe Leu Lys Ser Ile Ser Ser Pro
 20 25 30
 Gln Ser Leu Phe Leu Ala Asp Leu Cys Ala Ser Glu Pro Tyr Leu Leu
 35 40 45
 Phe Leu Asn Ala Val Leu Ser Ala Cys Asn Thr Ile Ser Phe Ile Ser
 50 55 60
 Val Pro Glu Ser Ser Gly Phe Ala Pro Ser Pro Pro Ala Ile Leu Leu
 65 70 75 80
 Leu
 81

<210> 1131
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1131
 Met Cys Cys Trp Ile Trp Phe Ala Ser Ile Leu Leu Arg Ile Phe Ala
 1 5 10 15
 Leu Met Phe Ile Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Val Val
 20 25 30
 Ser Leu Pro Gly Phe Gly Ile Arg Met Met Leu Ala Ser *
 35 40 45

<210> 1132
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1132
 Met Ser Gln Glu Pro Gly Arg Arg His Ser Lys Leu Thr Leu Thr Ala
 1 5 10 15
 Ser Arg Met Ala Pro Cys Leu Trp Val Trp Thr Ser Leu Cys Gln Ala
 20 25 30
 Trp Ser Met Ser Met Gly Ser Leu Ser Met Gln Thr Thr *
 35 40 45

<210> 1133
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1133
 Met His Ser His Gly Val Ser Tyr Trp Thr Val Arg Thr Val Ile Trp
 1 5 10 15
 Pro Ile Ser Ser Leu Val Ser Lys Ile Thr Thr Trp Glu Phe Asn Glu
 20 25 30
 Val Thr Ser Met Ser Glu His Leu Lys Ser Cys Pro Phe Asn Ile Val
 35 40 45
 Glu His Lys Ser Asp Pro Ile Leu Leu Thr Ser Met Cys His Pro Arg

[illegible]

```
<210> 1134
<211> 57
<212> PRT
<213> Homo sapiens
```

<400> 1134															
Met	Glu	Ala	His	Gln	Ser	Phe	Lys	His	Lys	Ser	Cys	Thr	Trp	Ala	Ile
1				5					10					15	
Thr	Val	Trp	Phe	His	Phe	Val	Cys	Phe	Leu	Asn	Thr	Phe	Ser	Cys	Phe
			20					25					30		
Phe	Asn	Lys	Leu	Ser	Pro	Ile	Leu	Glu	Ser	Leu	Val	Val	Gly	Ser	Ile
		35					40					45			
Ser	Arg	His	Leu	Leu	Arg	Glu	Leu	*							
	50					55	56								

```
<210> 1135
<211> 57
<212> PRT
<213> Homo sapiens
```

```

      <400> 1135
Met Glu Ala His Gln Ser Phe Lys His Lys Ser Cys Thr Trp Ala Ile
  1              5              10              15
Thr Val Trp Phe His Phe Val Cys Phe Leu Asn Thr Phe Ser Cys Phe
      20              25              30
Phe Asn Lys Leu Ser Pro Ile Leu Glu Ser Leu Val Val Gly Ser Ile
      35              40              45
Ser Arg His Leu Leu Arg Glu Leu *
      50              55 56

```

```
<210> 1136
<211> 105
<212> PRT
<213> Homo sapiens
```

<400> 1136															
Met	Pro	Phe	Ala	Gln	Thr	Gly	Leu	Gln	Leu	Leu	Leu	Arg	Leu	Cys	Arg
1				5					10					15	
Val	Leu	His	Val	Leu	Arg	Leu	Leu	Gly	Met	Leu	Arg	Glu	Gln	Met	His
			20					25					30		
Leu	Leu	Arg	Glu	Lys	Leu	Leu	Asp	Leu	Leu	Pro	Pro	Glu	Leu	Cys	Gln
		35					40					45			
Arg	Val	Pro	Arg	Ala	Ala	Thr	Ala	Lys	Gly	His	Lys	Arg	Arg	Ala	Ala
50						55					60				

Ala Val Pro Asp Asp Gly Thr Asp Leu Leu Pro Gln Gly Met Arg Thr
 65 70 75 80
 Ala Cys Thr Thr Arg Arg Ile Phe Lys Tyr Asn Thr Glu Pro Phe Ala
 85 90 95
 Ala Phe Leu Phe Ile Leu Asn Met *
 100 104

<210> 1137
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1137
 Met Val Gly Phe Tyr Leu Gln Ser Val Leu Tyr Phe Tyr Phe Ser Gln
 1 5 10 15
 Leu Ile Tyr Leu Gly Asp His Ala Lys Ser Val Asn Ile Val Thr Ser
 20 25 30
 Phe Ile Leu Thr Ala Ala Tyr Val Asn Asn Ser Lys Met His His Thr
 35 40 45
 Val Phe Asn *
 50 51

<210> 1138
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1138
 Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
 1 5 10 15
 Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
 20 25 30
 Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
 35 40 45
 His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
 50 55 60
 Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
 65 70 75 80
 His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
 85 90 95
 Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
 100 105 110
 Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
 115 120 125
 Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
 130 135 140
 Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
 145 150 155 160
 Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn
 165 170 175
 Val Arg Gly Lys Val Ala Val Asp Leu Phe *
 180 185 186

<210> 1139
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1139
 Met Trp Gln Lys Ser Leu Leu Ile Leu Ser Phe Arg Val Ser Phe Pro
 1 5 10 15
 Leu Phe Leu Thr Tyr Asn Tyr Lys Leu Leu Ser Ile Arg Arg Thr Arg
 20 25 30
 Pro Leu Ser Ser Phe Phe Ser Lys Leu Leu Gln Ile Ala Val Asn Ser
 35 40 45
 Ile Asn Ser Leu Phe Ser Ala Gly Lys Val Ala Phe Ser Lys His Val
 50 55 60
 Cys Leu Leu Pro Gly Gly Leu Lys Ser Met Ile Tyr Cys Ser Ser Met
 65 70 75 80
 Cys Leu Lys Gln Leu Leu Arg Ser Phe Lys Gln Glu Ser Ser Lys Gly
 85 90 95
 Ser Val Leu Ile Met Val Leu Val Phe Leu Gln Ile *
 100 105 108

<210> 1140
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1140
 Met Pro Ala Pro Thr Ala Trp Leu Leu Pro Ala Val Ser Thr Cys Ser
 1 5 10 15
 Asn Leu Arg Ala Lys Ala Gly Val Ile Leu Gly Thr Ile Thr Thr Arg
 20 25 30
 Pro Tyr Val His Thr Trp Gly Ser Ala Asp Met Ala Thr Pro Tyr His
 35 40 45
 Leu Gly Pro Phe Trp Thr Leu Gly Thr Asp Lys His Arg Arg Glu Ala
 50 55 60
 Asn Arg Gly Gln Arg Ala Ile Trp Gly Trp Pro Thr Gly Pro Pro Trp
 65 70 75 80
 His Leu *
 82

<210> 1141
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1141
 Met Tyr Gln Trp Gly Ser Ser Ile Ile Leu Ile Leu Trp Pro Leu Ser
 1 5 10 15
 Met Asn Ile Gly Cys Tyr Ser Ile Tyr Leu Lys Met Val Met Leu Leu
 20 25 30

Ser Ser Lys Phe Ser Trp Lys Ser Phe Ser Lys Leu Gln Phe Leu Leu
 35 40 45
 Leu Leu Lys Phe Arg Tyr Met Cys Ile *
 50 55 57

<210> 1142
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1142
 Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1 5 10 15
 Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser
 20 25 30
 Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu *
 35 40 45

<210> 1143
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1143
 Met Leu Trp Ala Leu Ile Arg Ala Ala Leu Ala Gln Leu His Thr Glu
 1 5 10 15
 Glu Pro Lys Lys Arg Lys Glu Glu Lys Met Ser Pro Ala Leu Ser Pro
 20 25 30
 Pro Leu Pro Ser Val Pro Ile Ser Leu Gly Gln Asn Asn Arg Lys Arg
 35 40 45
 Arg Ser His Leu Ser Leu Leu Leu Gln *
 50 55 57

<210> 1144
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 1144
 Met Ala Tyr Thr Met Ile Pro Val Leu His Phe Phe Cys Cys Glu Thr
 1 5 10 15
 Ser Ser Leu Val Arg Thr Lys Val Val Trp Glu Ala Ile Asn Met Val
 20 25 30
 Phe Ala Lys Ser Met Asn Gly Gly Pro Asp Arg Cys Ile Ala Val Arg
 35 40 45
 Gln Val Lys Phe Leu Phe Arg Lys Val Ser Phe Ser Glu Lys Ile Asp
 50 55 60
 His Cys Pro Leu His Asp Gly Asn Ile Leu Leu Pro Gly Pro Trp Glu
 65 70 75 80
 Met Ala Pro Tyr Trp Gly Leu Asn Ile Ser Leu Cys His Leu Gln Phe

```

      85      90      95
Arg His Ser Ile Val Ser Leu Ala Arg Cys Ser Leu Gly Glu Gly Gln
      100      105      110
Ser Met Leu Trp Cys Pro Cys Leu Thr Ser Ile Ser Val Asp Met Ala
      115      120      125
Thr Leu Tyr Ile Asn Ala Ser Ser Ser Leu Ser Ser Lys Gly Lys Lys
      130      135      140
Ala Asp *
145 146

```

```

<210> 1145
<211> 103
<212> PRT
<213> Homo sapiens

```

```

<400> 1145
Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Gly
  1      5      10      15
Ser Val Ala Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser
      20      25      30
Pro Gly Lys Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp
      35      40      45
Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Ala Gly Gln Ser Pro Val Leu
      50      55      60
Val Ile Tyr Glu Asp Ser Arg Arg Pro Ser Gly Ile His Lys Arg Phe
      65      70      75      80
Tyr Gly Ser Asn Ser Gly Thr Thr Ala Thr Leu Thr Ile Ser Gly Thr
      85      90      95
Gln Ala Met Asp Glu Gly *
      100      102

```

```

<210> 1146
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1146
Met Pro Leu Leu His Gly Val Tyr Leu Ala Arg Arg Ser Leu Ile Cys
  1      5      10      15
Ile Ser Phe Cys His Leu Cys Val Leu Ser Ile Gly Leu Arg Val Ile
      20      25      30
Val Cys Val Val Gly Ile Ser Glu Asp Arg Lys Arg Ser Ala Ser Ala
      35      40      45
Pro Thr Leu Gly Ile Val Pro Leu His Ala Ser Leu His Gln His Cys
      50      55      60
Ala Pro Asn Gln Ser Asn Pro Cys Ser Trp His Leu *
      65      70      75      76

```

```

<210> 1147
<211> 118
<212> PRT

```


<213> Homo sapiens

<400> 1147

```

Met Asn Pro Ser Ala Ser Leu Val Cys Leu Leu Phe Ala Phe Ser Ser
 1              5              10              15
Cys Arg Ile Trp Ser Val Leu Cys Gln Leu Cys Val Pro Ser Pro Trp
              20              25              30
Pro Ser Pro Leu Cys Leu Cys Pro Gln Thr Asp Val Ala Pro Ile Cys
              35              40              45
Ala Val Gln Pro Ser Leu Phe Cys Leu Gly Ser Arg Glu Pro Leu Trp
              50              55              60
Thr Val Leu Val Gly Ser Cys Pro Leu Arg Ala Phe Thr Asn Leu Ser
 65              70              75              80
Val Arg Pro Pro Pro Gly His His Ser Ile His Leu Leu Thr Trp Leu
              85              90              95
Ala Ser Ser Ser Ala Ala Ala Thr Thr Ala Ala Ser Thr Ala Ser Gly
              100              105              110
Ala Pro His Ser Val *
              115              117

```

<210> 1148

<211> 399

<212> PRT

<213> Homo sapiens

<400> 1148

```

Met Trp Ala Ala Val Gly Gly Phe Leu Phe Ala Pro Arg Cys Phe Leu
 1              5              10              15
Leu Pro Trp Pro Leu Arg Ala Pro Leu Ser Ser Leu Phe Val Leu Pro
              20              25              30
Arg Leu Leu Trp Pro Ile Pro Tyr Pro Val Leu Ala Ser Val Cys
              35              40              45
Pro Cys Val Pro Gly Gly Arg Phe Phe Gly Pro Leu Tyr Pro Arg Asp
              50              55              60
Leu Arg Leu Leu Arg Cys Val Pro Gly Glu Leu Thr Gly Ala Ala Pro
 65              70              75              80
Arg Thr Leu Pro Gly Cys Asp Leu Asn Cys Leu Gly Leu Gly Arg Glu
              85              90              95
Ala Ala Val Pro Arg Leu Leu Arg Leu Thr Arg Asp Pro Ala Arg Pro
              100              105              110
Ser Cys Arg Thr Leu Gly Val His Ala Val Pro Arg Arg Ala Phe Gly
              115              120              125
Phe Tyr Ala Val Pro Arg Arg Asp Pro Arg Phe Tyr Ala Val Pro Arg
              130              135              140
Arg Val Pro Arg Leu Tyr Ala Val Pro His Pro Ala Leu Arg Val Tyr
 145              150              155              160
Ala Val Pro Arg Arg Thr Phe Arg Val Tyr Ala Val Pro His Pro Ala
              165              170              175
Leu Arg Val Tyr Ala Val Pro Arg Arg Ala Leu Gly Leu Tyr Val Val
              180              185              190
Pro Gln Arg Ala Leu Arg Val Tyr Ala Val Pro Arg Arg Thr Phe Arg
              195              200              205
Val Tyr Ala Val Pro His Pro Ala Leu Arg Leu Tyr Ala Val Ala Arg
              210              215              220
Arg Ala Leu Arg Phe Tyr Val Val Pro Gln Arg Ala Leu Arg Val Tyr

```

```

225          230          235          240
Ala Val Pro Arg Leu Pro Gly Arg Ala Thr Phe Arg Asp Leu Arg Pro
          245          250          255
Leu Leu Arg Leu Leu Leu Pro Leu Gly Gly Arg Arg Val Leu Gly Leu
          260          265          270
Pro Leu Ser Leu Pro Ala Gly Leu Ala Leu Arg Ala Ala Ser Arg Ala
          275          280          285
Arg Pro Leu His Leu Leu Arg Ala Ala Cys Leu Leu Pro Ser Leu Gly
          290          295          300
His Leu Gly Thr Leu Arg Gly Ser Leu Leu Gly Leu Ser Leu Ala Val
305          310          315          320
Arg Pro Pro Arg Ala Pro Arg Leu Gly Leu Arg Ala Pro Val Trp Pro
          325          330          335
Ala Ala Ser Cys Leu Leu His Ser Gly Gly Ala Pro Arg Arg Leu Leu
          340          345          350
Cys Ala Leu Ala Pro Leu Arg Pro Phe Cys Leu Pro Ala Arg Gly Ser
          355          360          365
Trp Leu Ser Gly Ser Leu Ser Gln Arg Arg Gly Asp Leu Arg Arg Pro
          370          375          380
Leu Gly Thr Arg Gly Asn Pro Leu Arg Leu Arg Gly Leu Gly His
385          390          395          399

```

<210> 1149

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1149

```

Met Pro Ser Tyr Phe Lys Thr Cys Ser Leu Phe Thr Leu Leu Ser Ser
1          5          10          15
Val Phe Leu Val Cys Ile Trp Ile Phe Lys Thr Asn Ile Lys Ser Ser
          20          25          30
Val Ser Glu Ser Pro Pro Asp Ser Gly Leu Gly Gln Val Thr Ala Val
          35          40          45
Tyr Gln Val Gln Cys Leu Cys Trp Ala Lys Asp Cys Asn Tyr Pro Ile
          50          55          60
Cys Ser *
65 66

```

<210> 1150

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1150

```

Met Leu Val Ser Lys Leu Met Leu Gln Ile Val Met Ala Val Pro His
1          5          10          15
Tyr Ile Met Pro Val Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu
          20          25          30
Leu Glu Ala Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser
          35          40          45
Ser Leu Asp Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met
          50          55          60

```

Leu Arg Lys Ala Leu *
65 69

<210> 1151
<211> 48
<212> PRT
<213> Homo sapiens

<400> 1151
Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
1 5 10 15
Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
20 25 30
Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
35 40 45 47

<210> 1152
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1152
Met Lys Asp His Leu Glu Phe Pro Phe Leu Asp Leu Leu Asp Leu Thr
1 5 10 15
Asp Ser Leu Gly Leu Leu Gly Phe Gln Gly Leu Leu Ala Leu Leu Ala
20 25 30
Leu Thr Phe Leu Leu Val Met Arg Tyr Val Asn Gln Ala Leu Gln Ala
35 40 45
Pro Gln Asp Leu Gln Val Ile Lys Asp Ser Lys Glu Asn Lys Glu *
50 55 60 63

<210> 1153
<211> 61
<212> PRT
<213> Homo sapiens

<400> 1153
Met Thr Ala Arg Phe Leu Leu Ala Arg Pro Ala Tyr Ser Ser Ala Leu
1 5 10 15
Leu Arg Gly Leu Gly Gly Pro Arg Thr Pro Leu Ile Gln Phe Ser Arg
20 25 30
Cys Gly Met Met Ser Ile Arg Leu Leu Gly Leu Phe Pro Leu Cys Leu
35 40 45
Cys Ser Val Leu Trp Phe Pro Gln Gln His Ser Leu *
50 55 60

<210> 1154
<211> 75

<212> PRT

<213> Homo sapiens

<400> 1154

```

Met Asp Ser Thr Phe Leu Ala Thr Arg Ala Val Arg Gly Gln Leu Tyr
 1          5          10          15
Leu Trp Ile Ser Met Leu Thr Ile Ala Thr Gly Lys Leu Cys Ala Arg
          20          25          30
Cys Tyr Pro Glu Asn Gln Asp His Ile Ile Gln Met Leu Pro Cys Ser
          35          40          45
Pro Ala Ser Val Ile Leu His Leu Pro Trp Met Met Lys Phe Phe Leu
          50          55          60
Ala Arg His Leu Ile Lys Trp Leu Glu Asn *
65          70          74

```

<210> 1155

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1155

```

Met Met Ala Lys Ser Val Arg Phe Cys Tyr Val Leu Phe Val Glu Glu
 1          5          10          15
Ile Arg Phe Ala Val Leu Val Val Gln Arg Leu Ala Lys Ser Asp Leu
          20          25          30
Trp Ala Lys Ser Gly Leu Leu Ser Ile Phe Ile Phe Ile Ser Lys Val
          35          40          45
Leu Leu Lys Gln Thr His Leu Leu Val Cys Arg Met Tyr Ile Ala Ala
          50          55          60
Phe Ala Leu *
65          67

```

<210> 1156

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1156

```

Met Ile Tyr Phe Leu Ser Thr Pro Leu Leu Leu Thr Leu Phe Asn Ile
 1          5          10          15
Leu Met Thr Phe Phe Phe Val Ala Pro Pro Leu Asn Leu Leu Asn Lys
          20          25          30
Thr His Phe Cys Phe Phe Ser Ser Tyr Ser Leu Lys Asp Phe Arg Cys
          35          40          45
Pro Pro Pro Lys Leu Lys Phe Leu Leu His Pro *
          50          55          59

```

<210> 1157

<211> 776

<212> PRT

<213> Homo sapiens

<400> 1157

```

Met Leu Phe Ile Val Thr Ala Leu Leu Cys Cys Gly Leu Cys Asn Gly
 1           5           10           15
Val Leu Ile Glu Thr Glu Ile Val Met Pro Thr Pro Lys Pro Glu
      20           25           30
Leu Trp Ala Glu Thr Asn Phe Pro Leu Ala Pro Trp Lys Asn Leu Thr
      35           40           45
Leu Trp Cys Arg Ser Pro Ser Gly Ser Thr Lys Glu Phe Val Leu Leu
      50           55           60
Lys Asp Gly Thr Gly Trp Ile Ala Thr Arg Pro Ala Ser Glu Gln Val
      65           70           75           80
Arg Ala Ala Phe Pro Leu Gly Ala Leu Thr Gln Ser His Thr Gly Ser
      85           90           95
Tyr His Cys His Ser Trp Glu Glu Met Ala Val Ser Glu Pro Ser Glu
      100          105          110
Ala Leu Glu Leu Val Gly Thr Asp Ile Leu Pro Lys Pro Val Ile Ser
      115          120          125
Ala Ser Pro Thr Ile Arg Gly Gln Glu Leu Gln Leu Arg Cys Lys Gly
      130          135          140
Trp Leu Ala Gly Met Gly Phe Ala Leu Tyr Lys Glu Gly Glu Gln Glu
      145          150          155          160
Pro Val Gln Gln Leu Gly Ala Val Gly Arg Glu Ala Phe Phe Thr Ile
      165          170          175
Gln Arg Met Glu Asp Lys Asp Glu Gly Asn Tyr Ser Cys Arg Thr His
      180          185          190
Thr Glu Lys Arg Pro Phe Lys Trp Ser Glu Pro Ser Glu Pro Leu Glu
      195          200          205
Leu Val Ile Lys Glu Met Tyr Pro Lys Pro Phe Phe Lys Thr Trp Ala
      210          215          220
Ser Pro Val Val Thr Pro Gly Ala Arg Val Thr Phe Asn Cys Ser Thr
      225          230          235          240
Pro His Gln His Met Ser Phe Ile Leu Tyr Lys Asp Gly Ser Glu Ile
      245          250          255
Ala Ser Ser Asp Arg Ser Trp Ala Ser Pro Gly Ala Ser Ala Ala His
      260          265          270
Phe Leu Ile Ile Ser Val Gly Ile Gly Asp Gly Gly Asn Tyr Ser Cys
      275          280          285
Arg Tyr Tyr Asp Phe Ser Ile Trp Ser Glu Pro Ser Asp Pro Val Glu
      290          295          300
Leu Val Val Thr Glu Phe Tyr Pro Lys Pro Thr Leu Leu Ala Gln Pro
      305          310          315          320
Gly Pro Val Val Phe Pro Gly Lys Ser Val Ile Leu Arg Cys Gln Gly
      325          330          335
Thr Phe Gln Gly Met Arg Phe Ala Leu Leu Gln Glu Gly Ala His Val
      340          345          350
Pro Leu Gln Phe Arg Ser Val Ser Gly Asn Ser Ala Asp Phe Leu Leu
      355          360          365
His Thr Val Gly Ala Glu Asp Ser Gly Asn Tyr Ser Cys Ile Tyr Tyr
      370          375          380
Glu Thr Thr Met Ser Asn Arg Gly Ser Tyr Leu Ser Met Pro Leu Met
      385          390          395          400
Ile Trp Val Thr Asp Thr Phe Pro Lys Pro Trp Leu Phe Ala Glu Pro
      405          410          415
Ser Ser Val Val Pro Met Gly Gln Asn Val Thr Leu Trp Cys Arg Gly
      420          425          430
Pro Val His Gly Val Gly Tyr Ile Leu His Lys Glu Gly Glu Ala Thr

```

435 440 445
 Ser Met Gln Leu Trp Gly Ser Thr Ser Asn Asp Gly Ala Phe Pro Ile
 450 455 460
 Thr Asn Ile Ser Gly Thr Ser Met Gly Arg Tyr Ser Cys Cys Tyr His
 465 470 475 480
 Pro Asp Trp Thr Ser Ser Ile Lys Ile Gln Pro Ser Asn Thr Leu Glu
 485 490 495
 Leu Leu Val Thr Gly Leu Leu Pro Lys Pro Ser Leu Leu Ala Gln Pro
 500 505 510
 Gly Pro Met Val Ala Pro Gly Glu Asn Met Thr Leu Gln Cys Gln Gly
 515 520 525
 Glu Leu Pro Asp Ser Thr Phe Val Leu Leu Lys Glu Gly Ala Gln Glu
 530 535 540
 Pro Leu Glu Gln Gln Arg Pro Ser Gly Tyr Arg Ala Asp Phe Trp Met
 545 550 555 560
 Pro Ala Val Arg Gly Glu Asp Ser Gly Ile Tyr Ser Cys Val Tyr Tyr
 565 570 575
 Leu Asp Ser Thr Pro Phe Ala Ala Ser Asn His Ser Asp Ser Leu Glu
 580 585 590
 Ile Trp Val Thr Asp Lys Pro Pro Lys Pro Ser Leu Ser Ala Trp Pro
 595 600 605
 Ser Thr Met Phe Lys Leu Gly Lys Asp Ile Thr Leu Gln Cys Arg Gly
 610 615 620
 Pro Leu Pro Gly Val Glu Phe Val Leu Glu His Asp Gly Glu Glu Ala
 625 630 635 640
 Pro Gln Gln Phe Ser Glu Asp Gly Asp Phe Val Ile Asn Asn Val Glu
 645 650 655
 Gly Lys Gly Ile Gly Asn Tyr Ser Cys Ser Tyr Arg Leu Gln Ala Tyr
 660 665 670
 Pro Asp Ile Trp Ser Glu Pro Ser Asp Pro Leu Glu Leu Val Gly Ala
 675 680 685
 Ala Gly Pro Val Ala Gln Glu Cys Thr Val Gly Asn Ile Val Arg Ser
 690 695 700
 Ser Leu Ile Val Val Val Val Ala Leu Gly Val Val Leu Ala Ile
 705 710 715 720
 Glu Trp Lys Lys Trp Pro Arg Leu Arg Thr Arg Gly Ser Glu Thr Asp
 725 730 735
 Gly Arg Asp Gln Thr Ile Ala Leu Glu Glu Cys Asn Gln Glu Gly Glu
 740 745 750
 Pro Gly Thr Pro Ala Asn Ser Pro Ser Ser Thr Ser Gln Arg Ile Ser
 755 760 765
 Val Glu Leu Pro Val Pro Ile *
 770 775

<210> 1158

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1158

Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala Leu Ala Phe
 1 5 10 15
 Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu Ala Val Leu
 20 25 30
 Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala Tyr Trp His
 35 40 45

Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu Leu Gly Glu
 50 55 60
 Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr Asp Gly *
 65 70 75 79

<210> 1159
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 1159
 Met Ser Ser Gly Thr Glu Leu Leu Trp Pro Gly Ala Ala Leu Leu Val
 1 5 10 15
 Leu Leu Gly Val Ala Ala Ser Leu Cys Val Arg Cys Ser Arg Pro Gly
 20 25 30
 Ala Lys Arg Ser Glu Lys Ile Tyr Gln Gln Arg Ser Leu Arg Glu Asp
 35 40 45
 Gln Gln Ser Phe Thr Gly Ser Arg Thr Tyr Ser Leu Val Gly Gln Ala
 50 55 60
 Trp Pro Gly Pro Leu Ala Asp Met Ala Pro Thr Arg Lys Asp Lys Leu
 65 70 75 80
 Leu Gln Phe Tyr Pro Ser Leu Glu Asp Pro Ala Ser Ser Arg Tyr Gln
 85 90 95
 Asn Phe Ser Lys Gly Ser Arg His Gly Ser Glu Glu Ala Tyr Ile Asp
 100 105 110
 Pro Thr Ala Ile Lys Tyr Phe Leu Thr Gln Ala Thr Ala Ser Ile Ile
 115 120 125
 Leu Leu Ile Ala
 130 132

<210> 1160
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 1160
 Met Val Gly Leu Gly Gly Met Ser Gln Leu Leu Leu Ala Ser Leu Leu
 1 5 10 15
 Pro Pro Val Pro Gln Gly Ser Pro Thr Arg Arg Lys Leu Pro Ala Ser
 20 25 30
 Leu Leu Val Ser Thr Ala Leu Ile Ser Pro Val Cys Val Arg Gly Trp
 35 40 45
 Met Trp Gln Asn Leu Gln Asn Arg Ile His Gly Ser His Thr Ser Ala
 50 55 60
 Arg Arg Val Pro Ser Leu Pro Gly Ala Gly Gln Val Gly Val Arg Trp
 65 70 75 80
 Glu Ala Gly Pro Ala Cys Arg Thr Gln Pro Ser Pro Gln Asn Leu Ala
 85 90 95
 Pro Arg Pro His Pro Ser Ala Ala Gln Leu Ile Glu Asn Ala Ala Leu
 100 105 110
 Arg Ser Ala Met Ser Gly Glu Arg Leu Phe Pro Glu Gly Gln Glu His
 115 120 125
 Leu Gly Pro Leu Val Ala Pro Arg Val Pro Met Gly Gly Ala Leu Cys

130 135 140
 Pro Pro Leu Pro Ser Leu Ser Cys Ala Ile Cys Lys Val Gly Ala Ala
 145 150 155 160
 Arg Glu Ala Gly Gly Arg *
 165 166

<210> 1161
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1161
 Met Ala Asn Leu Leu Leu Ile Val Pro Ile Leu Ile Ala Met Ala
 1 5 10 15
 Phe Leu Met Leu Thr Glu Arg Lys Ile Leu Gly Tyr Ile Gln Leu Arg
 20 25 30
 Lys Gly Pro Asn Val Val Gly Pro Tyr Gly Leu Leu Gln Pro Phe Ala
 35 40 45
 Asp Ala Ile Lys Leu Phe Thr Lys Glu Pro Leu Lys Pro Ala Thr Ser
 50 55 60
 Ala Ile Thr Leu Tyr Ile Thr Ala Pro Thr Leu Ala Leu Thr Ile Ala
 65 70 75 80
 Leu Leu Leu *
 83

<210> 1162
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1162
 Met Lys Ala Trp Cys Phe Ser Asn Lys Phe Trp Leu Ala Val Leu Pro
 1 5 10 15
 Ile Cys Cys Ala Ser Ala Ala Tyr Leu Gly Gln Val Trp Leu Leu Ile
 20 25 30
 Tyr Ala Trp Arg Ala Glu Thr Ser Leu Glu Thr Glu Phe Tyr Thr Ile
 35 40 45
 Pro Leu Ser Trp Leu Tyr Tyr Phe Thr Thr Thr Tyr Tyr Leu Met Phe
 50 55 60
 Leu Pro Ser Leu Lys Phe Ala Gln Asp Ser Pro Pro Arg Ala Phe *
 65 70 75 79

<210> 1163
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1163
 Met Tyr Gly Leu Lys Ile Leu Ser His Leu Trp Val Leu Leu Ile Leu
 1 5 10 15


```

Ser Leu Leu Leu Phe Leu Arg Lys Ser Phe Lys Phe Tyr Ala Val Ser
      20      25      30
Phe Val Cys Phe Ala Phe Val Ala Phe Trp Asn Asn Leu Gln Lys Ile
      35      40      45
Ile Ala Gln Ala Asn Val Ile Gln Ser Pro Ser Ile Phe Pro Cys Ser
      50      55      60
Ser Ser Thr Phe Lys Leu *
      65      70

```

```

<210> 1164
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1164
Met Glu Thr Ala Val Ile Gly Val Val Val Val Leu Phe Val Val Thr
  1      5      10      15
Val Ala Ile Thr Cys Val Leu Cys Cys Phe Ser Cys Asp Ser Arg Ala
      20      25      30
Gln Asp Pro Gln Gly Gly Pro Gly Arg Ser Phe Thr Val Ala Thr Phe
      35      40      45
Arg Gln Glu Ala Ser Leu Phe Thr
      50      55  56

```

```

<210> 1165
<211> 97
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(97)
<223> Xaa = any amino acid or nothing

```

```

<400> 1165
Met Lys Met Leu Cys Gly Leu Leu Arg Thr Val Gln Gly Val Arg Phe
  1      5      10      15
Pro Gln Leu Thr Arg Ile His Gly Pro Ser Thr Gln Gly His Gln Leu
      20      25      30
Leu Leu Leu Trp Val Gly Val Leu Gln Val Gly Xaa Ser Ser Leu Gly
      35      40      45
Leu Gln Asn Asp Leu Met Gly Pro Ser Leu Gly Arg Gly Pro Pro Pro
      50      55      60
Leu Ala Ala Ser Thr Arg Cys Arg His Val Ala Gln Leu Gly Val Gly
      65      70      75      80
Leu Ser Lys Thr Trp Gln Pro Ser Thr His Gly Ile Ala Ser Ala Pro
      85      90      95  96
*

```

```

<210> 1166
<211> 48

```

<212> PRT

<213> Homo. sapiens

<400> 1166

```

Met Leu Ile Phe Val Phe Leu Phe Ser Tyr Leu Ile Ala Leu Ala Gly
 1           5           10           15
Thr Phe Ser Pro Arg Leu Asn Arg Ser Gly Glu Ser Val His Pro Phe
          20           25           30
Ala Leu His Pro Val Leu Arg Arg Lys His Pro Val Ile His Leu *
      35           40           45           47

```

<210> 1167

<211> 274

<212> PRT

<213> Homo sapiens

<400> 1167

```

Met Glu Ala Pro Leu Ser His Leu Glu Ser Arg Tyr Leu Pro Ala His
 1           5           10           15
Phe Ser Pro Leu Val Phe Phe Leu Leu Leu Ser Ile Met Met Ala Cys
          20           25           30
Cys Leu Val Ala Phe Phe Val Leu Gln Arg Gln Pro Arg Cys Trp Glu
      35           40           45
Ala Ser Val Glu Asp Leu Leu Asn Asp Gln Val Thr Leu His Ser Ile
      50           55           60
Arg Pro Arg Glu Glu Asn Asp Leu Gly Pro Ala Gly Thr Val Asp Ser
      65           70           75           80
Ser Gln Gly Gln Gly Tyr Leu Glu Glu Lys Ala Ala Pro Cys Cys Pro
          85           90           95
Ala His Leu Ala Phe Ile Tyr Thr Leu Val Ala Phe Val Asn Ala Leu
          100          105          110
Thr Asn Gly Met Leu Pro Ser Val Gln Thr Tyr Ser Cys Leu Ser Tyr
          115          120          125
Gly Pro Val Ala Tyr His Leu Ala Ala Thr Leu Ser Ile Val Ala Asn
          130          135          140
Pro Leu Ala Ser Leu Val Ser Met Phe Leu Pro Asn Arg Ser Leu Leu
          145          150          155          160
Phe Leu Gly Val Leu Ser Val Leu Gly Thr Cys Phe Gly Gly Tyr Asn
          165          170          175
Met Ala Met Ala Val Met Ser Pro Cys Pro Leu Leu Gln Gly His Trp
          180          185          190
Gly Gly Glu Val Leu Ile Val Ser Ile Arg Pro Val Ala Ser Trp Val
          195          200          205
Leu Phe Ser Gly Cys Leu Ser Tyr Val Lys Val Met Leu Gly Val Val
          210          215          220
Leu Arg Asp Leu Ser Arg Ser Ala Leu Leu Trp Cys Gly Ala Ala Val
          225          230          235          240
Gln Leu Gly Ser Leu Leu Gly Ala Leu Leu Met Phe Pro Leu Val Asn
          245          250          255
Val Leu Arg Leu Phe Ser Ser Ala Asp Phe Cys Asn Leu His Cys Pro
          260          265          270
Ala *
273

```

<210> 1168
 <211> 230
 <212> PRT
 <213> Homo sapiens

<400> 1168
 Met Arg Ile Cys Asn Leu Ile Ser Met Met Leu Leu Leu Cys His Trp
 1 5 10 15
 Asp Gly Cys Leu Gln Phe Leu Val Pro Met Leu Gln Asp Phe Pro Arg
 20 25 30
 Asn Cys Trp Val Ser Ile Asn Gly Met Val Asn His Ser Trp Ser Glu
 35 40 45
 Leu Tyr Ser Phe Ala Leu Phe Lys Ala Met Ser His Met Leu Cys Ile
 50 55 60
 Gly Tyr Gly Arg Gln Ala Pro Glu Ser Met Thr Asp Ile Trp Leu Thr
 65 70 75 80
 Met Leu Ser Met Ile Val Gly Ala Thr Cys Tyr Ala Met Phe Ile Gly
 85 90 95
 His Ala Thr Ala Leu Ile Gln Ser Leu Asp Ser Ser Arg Arg Gln Tyr
 100 105 110
 Gln Glu Lys Tyr Lys Gln Val Glu Gln Tyr Met Ser Phe His Lys Leu
 115 120 125
 Pro Ala Asp Phe Arg Gln Lys Ile His Asp Tyr Tyr Glu His Arg Tyr
 130 135 140
 Gln Gly Lys Met Phe Asp Glu Asp Ser Ile Leu Gly Glu Leu Asn Gly
 145 150 155 160
 Pro Leu Arg Glu Glu Ile Val Asn Phe Asn Cys Arg Lys Leu Val Ala
 165 170 175
 Ser Met Pro Leu Phe Ala Asn Ala Asp Pro Asn Phe Val Thr Ala Met
 180 185 190
 Leu Thr Lys Leu Lys Phe Glu Val Phe Gln Pro Gly Asp Tyr Ile Ile
 195 200 205
 Pro Arg Arg His His Arg Glu Asp Val Leu His Pro Ala Arg Arg
 210 215 220
 Gly Gln Arg Ala His *
 225 229

<210> 1169
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 1169
 Met Ala His Phe Thr Trp Ala His Leu Arg Val Leu Thr Leu Phe Leu
 1 5 10 15
 Leu Gln Val Gly Leu Leu Asp Asp Val His Gln Leu Leu Gly Pro Gln
 20 25 30
 Ala Asp Glu Asp Ser Leu Ser Ile Phe Thr Val Met Pro Ala Leu His
 35 40 45
 Gln Ser Gln Glu Gln Leu Gly Gly Ile Val Leu Glu Leu Gln His Gln
 50 55 60
 Ile His Ala Val Leu Ala Gln Gly Ala Asp Val Ile Glu Asp Gln Cys
 65 70 75 80
 Gly Asp Asp Val Tyr Ala Ile Gly Leu Val Ser His Asn Ala Ser Leu

```

      85      90      95
Val Leu Met Ala Gly Ala Leu Ala Val Leu Ser Glu Gly Leu Gln Gly
      100      105      110
Leu Asp Asp Glu Ala His Val Val Leu Ile Asp Val Glu Pro Gln Gln
      115      120      125
Pro Gln Ala Ala Arg Gly Ala Ala Ala His Asp Val Gln Glu Leu Gln
      130      135      140
Arg Leu Ala Tyr Gln Val Val Val Gly Phe Val Val Leu Thr Ala Gln
      145      150      155      160
Glu Val Leu Gln Val Pro Val Val Val Leu Thr Gln Gln Leu Gln Lys
      165      170      175
Ala Gln Asp Gly Leu His Asp Glu His Gly Cys Ala His Leu Thr Ala
      180      185      190
Leu His Thr Phe Ala His Leu Val Pro Pro Ala Gln Ala Gly Ala Gln
      195      200      205
Arg Val Ala Gly *
      210      212

```

<210> 1170
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

<400> 1170
Met Tyr Ser Leu Val Leu Thr Phe Leu Val Ser Phe Cys Ala Leu Ser
  1      5      10      15
Lys Thr Phe Leu Asp His Trp Phe Gln Met Phe Ile Tyr Tyr Ile Leu
      20      25      30
Phe Lys Asp Ser Glu Ile Gly Phe Cys His Pro Leu Leu Tyr Val Leu
      35      40      45
Phe His *
      50

```

<210> 1171
 <211> 157
 <212> PRT
 <213> Homo sapiens

```

<400> 1171
Met Leu Val Pro Leu Asn Leu Cys Leu Gln Ser Thr Leu Ala Leu Val
  1      5      10      15
Ser Leu Pro Leu Pro Gly Ile Gly Arg Ala Phe Cys Glu Trp Leu Ser
      20      25      30
Gly Thr Phe Lys Ala Arg Arg Gln Gly Pro Lys Ala Lys Arg Glu Leu
      35      40      45
Trp Asp Val Pro Ser Pro Val Arg Gly Trp Pro Trp Gly Phe Arg Leu
      50      55      60
Arg Gly Val Pro Gly Pro Val Ser Pro Ala Phe Gly Pro Phe Gly Glu
      65      70      75      80
Phe Gly Glu Glu Val Pro Thr Ala Arg Pro Gly Asp Val Arg Gly Ala
      85      90      95
Ala Leu Thr Phe Ile Val Gly Val Ser Ser Glu Val Ser Val Gln Arg
      100      105      110

```

Arg Ser Ala Gly Arg Ser His Arg Gly Arg Arg Arg Arg Ala Ser Cys
 115 120 125
 Thr Ala Ala Pro Gly Gly Gly Val Thr Arg Arg Trp Lys Glu Tyr Cys
 130 135 140
 Thr Gln Arg Ile Asn Asn Leu Val Lys Pro Phe Ser *
 145 150 155 156

<210> 1172
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1172
 Met Asn Pro Tyr Ile Ser Ile Ile Val Phe Ile Val Phe Leu Cys Ser
 1 5 10 15
 Glu Asn Tyr Pro Trp Asn Asn Met Leu Arg Ile Thr Gly Ser Ser Pro
 20 25 30
 Tyr Leu His Phe Leu Ser Val Leu Gly Val Leu Val Asn Ser Tyr Val
 35 40 45
 Leu Ile Leu Phe Asn Ser Glu Phe Leu Thr Gln His Phe Arg Glu Arg
 50 55 60
 Ile Gln Ala Gly *
 65 68

<210> 1173
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1173
 Met Cys Ser Leu Lys Phe Trp Ile Cys Phe Cys Gln Ala Val Ser Met
 1 5 10 15
 His Leu Cys Ala Thr Gln Leu Ser Val Ser Leu Pro Ala Gly Ile Ser
 20 25 30
 Met Phe Val Ser Gly Leu Val Cys Asp Ile Cys Val Trp Ser Gly Ser
 35 40 45
 Gly Met Thr His Pro Tyr Trp Ser Arg Met Arg Val Glu Met Met Val
 50 55 60
 Ala Gly Cys Phe Arg Glu Arg Asp Ala His *
 65 70 74

<210> 1174
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1174
 Met Leu Ser Ser Phe Phe Lys Ser Cys Phe Cys Val Ser Phe Trp Thr
 1 5 10 15
 Leu Ser Ile Ala Thr Ser Ser Asn Leu Leu Ile Phe Ser Ser Ala Ile

```

          20          25          30
Ser Asn Leu Leu Leu Ile Leu Ser Ser Val Phe Ser Ile Leu Asp Ile
      35          40          45
Val Val Phe Ile Thr Arg Ser Met Ile Trp Phe Cys Phe His Pro Cys
      50          55          60
Ile Tyr Ile Thr Cys Pro Val Phe His Ser Ala Ser *
      65          70          75 76

```

<210> 1175
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

          <400> 1175
Met Ser Phe Ala Phe Ser Leu Trp Tyr Pro Phe Leu Arg Asp Leu Arg
  1          5          10          15
Ser Cys Phe Lys Leu Ser Lys Leu Ser Cys His Ser Pro Ile Ser Phe
      20          25          30
Val Gln Tyr Thr Thr Met Ser Thr Arg Val Ser Cys Leu Asn Leu Leu
      35          40          45
Tyr Pro His Leu Arg Val Val Ser Ile His Ser
      50          55          59

```

<210> 1176
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

          <400> 1176
Met His Leu Leu Cys Ser Gly His Lys Leu Cys Leu Cys Ile Val Tyr
  1          5          10          15
Ile Ser Phe Phe Leu Phe Phe Lys Val Tyr Gly Phe Cys Phe Leu His
      20          25          30
Ala Asn Ile Val Asn Tyr Thr Glu Asp Thr Thr Asp Ser Ile Tyr Lys
      35          40          45
Val Tyr Arg Asn Ile Ile *
      50          54

```

<210> 1177
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

          <400> 1177
Met Leu Ser Met Leu Leu Arg Ala Val Phe Cys Cys Cys Arg Arg Leu
  1          5          10          15
His Leu Val Ser Ser Ile Leu Phe Cys Cys Ser Arg Asn Arg Thr Leu
      20          25          30
Ser Met Lys Glu Ala Asn Leu Leu Leu Arg Val Leu Ile Cys Ser Phe
      35          40          45

```

```

Ser Trp Val Arg Thr Ala Trp Met Leu Gly Ser Thr Ser Arg Thr Arg
  50          55          60
Gly Leu Ser Arg Leu Trp Leu Thr Val Thr Ala Val Met Pro Pro Met
  65          70          75          80
Pro Leu Ala Pro Pro *
          85

```

<210> 1178

<211> 189

<212> PRT

<213> Homo sapiens

<400> 1178

```

Met Met Pro Leu Leu Ser Leu Ile Phe Ser Ala Leu Phe Ile Leu Phe
  1          5          10          15
Gly Thr Val Ile Val Gln Ala Phe Ser Asp Ser Asn Asp Glu Arg Glu
          20          25          30
Ser Ser Pro Pro Glu Lys Glu Glu Ala Gln Glu Lys Thr Gly Lys Thr
          35          40          45
Glu Pro Ser Phe Thr Lys Glu Asn Ser Ser Lys Ile Pro Lys Lys Gly
          50          55          60
Phe Val Glu Val Thr Glu Leu Thr Asp Val Thr Tyr Thr Ser Asn Leu
          65          70          75          80
Val Arg Leu Arg Pro Gly His Met Asn Val Val Leu Ile Leu Ser Asn
          85          90          95
Ser Thr Lys Thr Ser Leu Leu Gln Lys Phe Ala Leu Glu Val Tyr Thr
          100          105          110
Phe Thr Gly Ser Ser Cys Leu His Phe Ser Phe Leu Ser Leu Asp Lys
          115          120          125
His Arg Glu Trp Leu Glu Tyr Leu Leu Glu Phe Ala Gln Asp Ala Ala
          130          135          140
Pro Ile Pro Asn Gln Tyr Asp Lys His Phe Met Glu Arg Asp Tyr Thr
          145          150          155          160
Gly Tyr Val Leu Ala Leu Asn Gly His Lys Lys Tyr Phe Cys Leu Phe
          165          170          175
Lys Pro Gln Lys Thr Val Glu Glu Gly Gly Lys Pro *
          180          185          188

```

<210> 1179

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1179

```

Met Ile Cys Lys Tyr Phe Phe Leu Ile Leu Trp Val Val Phe Ser Phe
  1          5          10          15
Phe Phe Met Phe Leu Asp Ala Gln Lys Phe Ile Ile Leu Met Lys Ser
          20          25          30
Asn Ser Ser Phe Leu Leu Leu Leu His Met Leu Leu Glu Ser Tyr Leu
          35          40          45
Arg Asn His Cys Gln Ile *
          50          54

```

<210> 1180
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1180
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ile Pro Ala Ile Trp Glu Ala Glu Ala Arg Thr Ala
 65 70 75 80
 *

<210> 1181
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1181
 Met Asp Glu Val His Val Leu Gly Leu Ala Leu Leu Thr Val Leu Ile
 1 5 10 15
 Glu Leu Val Ser Pro Leu Asp Ser Leu Arg Arg His Ser Cys Tyr Ile
 20 25 30
 Thr His Thr Phe Ser Cys Asn His Thr Asn Ser His Phe Tyr Ile Leu
 35 40 45
 Ser Ile Ser Cys Thr Asn Trp Gly Leu Lys Val Tyr Lys Ile Phe Leu
 50 55 60
 Ser Cys Glu Phe *
 65 68

<210> 1182
 <211> 430
 <212> PRT
 <213> Homo sapiens

<400> 1182
 Met Ile Thr Lys Thr Pro Ala Gln Leu Arg Ser Val Ala Thr Ile Leu
 1 5 10 15
 Lys Thr Leu Cys Leu Ala Ser Pro Thr Val Ala Asn Val Lys Ala Pro
 20 25 30
 Pro Gln Val Ala Val Ala Ala Gly Thr Pro Asn Thr Ser Gly Ser Ile
 35 40 45
 His Glu Asn Pro Pro Lys Ala Lys Ala Thr Val Asn Val Lys Gln Ala
 50 55 60

Ala Lys Val Val Lys Ala Ser Ser Pro Ser Tyr Leu Ala Glu Gly Lys
 65 70 75 80
 Ile Arg Cys Leu Ala Gln Pro His Pro Gly Thr Gly Val Pro Arg Ala
 85 90 95
 Ala Ala Glu Leu Pro Leu Glu Ala Glu Lys Ile Lys Thr Gly Thr Gln
 100 105 110
 Lys Gln Ala Lys Thr Asp Met Ala Phe Lys Thr Ser Val Ala Val Glu
 115 120 125
 Met Ala Gly Ala Pro Ser Trp Thr Lys Val Ala Glu Glu Gly Asp Lys
 130 135 140
 Pro Pro His Gly Pro Arg Cys Pro Asn His Ala Cys Gln Arg Leu Gly
 145 150 155 160
 Gly Leu Ser Ala Pro Pro Trp Ala Lys Pro Glu Asp Arg Gln Thr Gln
 165 170 175
 Pro Gln Pro His Gly His Val Pro Gly Lys Thr Thr Gln Gly Gly Pro
 180 185 190
 Cys Pro Ala Ala Cys Glu Val Gln Gly Met Leu Val Pro Pro Met Ala
 195 200 205
 Pro Thr Gly His Ser Thr Cys Asn Val Glu Ser Trp Gly Asp Asn Gly
 210 215 220
 Ala Thr Arg Ala Gln Pro Ser Met Pro Gly Gln Ala Val Pro Cys Gln
 225 230 235 240
 Glu Asp Thr Val Gly Ser Leu Leu Ala Ser Leu Cys Ala Glu Val Ala
 245 250 255
 Gly Val Leu Ala Ser Gln Glu Asp Leu Arg Thr Leu Leu Ala Lys Ala
 260 265 270
 Leu Ser Gln Gly Glu Val Trp Ala Ala Leu Asn Gln Ala Leu Ser Lys
 275 280 285
 Glu Val Leu Gly Ala Thr Val Thr Lys Ala Leu Pro Gln Ser Met Leu
 290 295 300
 Ser Met Ala Leu Val Lys Ala Leu Ser Trp Ser Glu Leu Arg Leu Thr
 305 310 315 320
 Leu Ser Arg Ala Leu Ser Arg Gly Glu Leu Arg Ala Glu Leu Thr Lys
 325 330 335
 Val Met Gln Gly Lys Leu Ala Glu Val Leu Ser Lys Ala Leu Thr Glu
 340 345 350
 Glu Glu Trp Val Ala Leu Ser Gln Ala Leu Cys Gln Gly Glu Leu Gly
 355 360 365
 Ala Leu Leu Ser Gln Ser Trp Cys Arg Val Ala Leu Arg Thr Gly Thr
 370 375 380
 Ile Leu Pro Lys Ala Ala Ser Lys Ser Thr Gly Ser Gly Val Thr Lys
 385 390 395 400
 Thr Pro Ala Leu Val Lys Val Ala Cys Arg Arg Ser Pro Ser Ala Ala
 405 410 415
 Trp Gly Pro Ser Leu Gly Pro Val Arg Pro Gln Thr Ser Lys
 420 425 430

<210> 1183

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1183

Met Thr Phe Ile Leu Ser Arg Pro Pro Phe Phe Phe Leu Phe Ser Lys
 1 5 10 15
 Arg Ser Cys Ser Gly Ala Arg Trp Ser Arg Trp Pro Gln Phe Gly Tyr

```

          20          25          30
Ser Thr Ser Pro Pro Gly Ser Met Phe Phe Ser Ser Pro Pro Ser Arg
          35          40          45
Gly Ile Pro Ala *
          50          52

```

```

<210> 1184
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1184
Met Ser Met Leu His Trp Ile His Phe Ile Leu His Val Ser Ile Val
 1          5          10          15
Leu Lys Phe Leu Ser Val Lys Cys Ser Ile Ile Tyr Lys Lys Ser Phe
          20          25          30
Ala Ser Ser Ala Phe Phe Leu Val Gln Ala Ser Phe Phe His Ile Met
          35          40          45
Leu Ser Gln Leu Tyr Phe Gln *
          50          55

```

```

<210> 1185
<211> 294
<212> PRT
<213> Homo sapiens

```

```

<400> 1185
Met Pro Tyr Val Thr Glu Ala Thr Arg Val Gln Leu Val Leu Pro Leu
 1          5          10          15
Leu Val Ala Glu Ala Ala Ala Pro Ala Phe Leu Glu Ala Phe Ala
          20          25          30
Ala Asn Val Leu Glu Pro Arg Glu His Ala Leu Leu Thr Leu Leu Leu
          35          40          45
Val Tyr Gly Pro Arg Glu Gly Gly Arg Gly Ala Pro Asp Pro Phe Leu
          50          55          60
Gly Val Lys Ala Ala Ala Glu Leu Glu Arg Arg Tyr Pro Gly Thr
          65          70          75          80
Arg Leu Ala Trp Leu Ala Val Arg Ala Glu Ala Pro Ser Gln Val Arg
          85          90          95
Leu Met Asp Val Val Ser Lys Lys His Pro Val Asp Thr Leu Phe Phe
          100          105          110
Leu Thr Thr Val Trp Thr Arg Pro Gly Pro Glu Val Leu Asn Arg Cys
          115          120          125
Arg Met Asn Ala Ile Ser Gly Trp Gln Ala Phe Phe Pro Val His Phe
          130          135          140
Gln Glu Phe Asn Pro Ala Leu Ser Pro Gln Arg Ser Pro Pro Gly Pro
          145          150          155          160
Pro Gly Ala Gly Pro Asp Pro Pro Ser Pro Pro Gly Ala Asp Pro Ser
          165          170          175
Arg Gly Ala Pro Ile Gly Gly Arg Phe Asp Arg Gln Ala Ser Ala Glu
          180          185          190
Gly Cys Phe Tyr Asn Ala Asp Tyr Leu Ala Ala Arg Ala Arg Leu Ala
          195          200          205

```

Gly Glu Leu Ala Gly Gln Glu Glu Glu Glu Ala Leu Glu Gly Leu Glu
 210 215 220
 Val Met Asp Val Phe Leu Arg Phe Ser Gly Leu His Leu Phe Arg Ala
 225 230 235 240
 Val Glu Pro Gly Leu Val Gln Lys Phe Ser Leu Arg Asp Cys Ser Pro
 245 250 255
 Arg Leu Ser Glu Glu Leu Tyr His Arg Cys Arg Leu Ser Asn Leu Glu
 260 265 270
 Gly Leu Gly Gly Arg Ala Gln Leu Ala Met Ala Leu Phe Glu Gln Glu
 275 280 285
 Gln Ala Asn Ser Thr *
 290 293

<210> 1186
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1186
 Met Met Tyr Ile Leu Leu Val Phe Leu Thr Leu Trp Leu Leu Ile Glu
 1 5 10 15
 Met Ile His Cys Leu Gln Asn Gly Asp His Arg Arg Thr Arg Pro Pro
 20 25 30
 Thr Glu Thr Gly Trp Leu Pro Leu Arg Phe His Leu Arg Thr Gly Lys
 35 40 45
 Ile Leu Arg Tyr Leu Arg Gly Glu *
 50 55 56

<210> 1187
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 1187
 Met Asp Leu Asp Asn Ala Lys Tyr Ser Leu Leu Gly Phe Ala Leu Phe
 1 5 10 15
 Trp Val Val Val Gly Phe Phe Phe Val Cys Leu Phe Trp Phe Leu Val
 20 25 30
 Phe Leu Pro Trp Cys Lys Thr Val Glu Ser Cys Leu Phe Thr Gly Leu
 35 40 45
 Gly Ser Ile Glu Val Cys Val Ser Ser Val Arg Phe Leu Leu Arg Thr
 50 55 60
 Ile Cys Ile Phe Asn Asn Ser Thr Ser Ser Arg Pro Ser Arg Arg Asn
 65 70 75 80
 Glu Arg Gly Leu Val Ser Ser Pro Glu Leu Ala Leu Glu Cys Val His
 85 90 95
 Leu Ala Ala His Gly Leu Val Ala Leu Arg Gly Leu Ile Gln Leu Pro
 100 105 110
 Leu Gln Leu Pro Ala Val Gly Val Asp Ala Leu Gly Leu Leu Leu Cys
 115 120 125
 Leu Leu Gln Leu Pro Leu Glu Leu Leu Asp Pro Gly Ile Ala Phe Leu
 130 135 140
 Cys Leu Leu Leu Val Leu Leu Gly His Leu Ala Leu Val Leu His Leu

```
<210> 1188
<211> 216
<212> PRT
<213> Homo sapiens
```

```
<210> 1189
<211> 176
<212> PRT
<213> Homo sapiens
```

677

Ala Leu Ala Ala Ala Val Pro Ser Met Thr Gln Leu Leu Gly Asp Pro
 50 55 60
 Gln Ala Gly Ile Arg Arg Asn Val Ala Ser Ala Leu Gly Asn Leu Gly
 65 70 75 80
 Bro Glu Gly Leu Gly Glu Glu Leu Leu Gln Cys Glu Val Pro Gln Arg
 85 90 95
 Leu Leu Glu Met Ala Cys Gly Asp Pro Gln Pro Asn Val Lys Glu Ala
 100 105 110
 Ala Leu Ile Ala Leu Arg Ser Leu Gln Gln Glu Pro Gly Ile His Gln
 115 120 125
 Val Leu Val Ser Leu Gly Ala Ser Glu Lys Leu Ser Leu Leu Ser Leu
 130 135 140
 Gly Asn Gln Ser Leu Pro His Ser Ser Pro Arg Pro Ala Ser Ala Lys
 145 150 155 160
 His Cys Arg Lys Leu Ile His Leu Leu Arg Pro Ala His Ser Met *
 165 170 175

<210> 1190
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1190
 Met Ala Gly Thr Ala Gln Leu Leu Gly Leu Lys Gln Leu Ile Gly Leu
 1 5 10 15
 Glu Leu Leu Thr Ala Gln Cys Gly Gln Ile Thr Gly Tyr Arg Asp Arg
 20 25 30
 Arg Glu Glu Leu Leu Pro Pro Arg Phe Leu Ala Thr Gly Pro Pro Ser
 35 40 45
 Cys His Pro Pro Ser Gln Thr Val Pro *
 50 55 57

<210> 1191
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1191
 Met Gly Ile Cys Leu Thr Trp Lys Pro Pro Thr Gly Val Ser Val Ile
 1 5 10 15
 Leu Ile Leu Leu Ser Glu Leu His Met Lys Ser Pro Gly Arg Leu Lys
 20 25 30
 Pro Lys Ser Ser Pro His Phe Ser Thr Val Leu Thr Pro Leu Thr Phe
 35 40 45
 Met Tyr Pro Gly Leu Ala Leu Leu His Ser Leu Tyr Trp His Trp Gln
 50 55 60
 Glu Asn Gly Glu Ile Leu Cys Arg Ala Ala Glu Pro Lys Phe Ala Gln
 65 70 75 80
 Glu Ser Lys Cys Thr Ile Tyr *
 85 87

<210> 1192
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 1192
 Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1 5 10 15
 Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
 20 25 30
 Arg Pro Arg Phe Leu Glu Tyr Ser Thr Ser Glu Cys His Phe Phe Asn
 35 40 45
 Gly Thr Glu Arg Val Arg Tyr Leu Asp Arg Tyr Phe His Asn Gln Glu
 50 55 60
 Glu Asn Val Arg Phe Asp Ser Asp Val Gly Glu Phe Arg Ala Val Thr
 65 70 75 80
 Glu Leu Gly Arg Pro Asp Ala Glu Tyr Trp Asn Ser Gln Lys Asp Leu
 85 90 95
 Leu Gly Thr Ala Arg Arg Thr Ser Trp Ser Arg Ser Gly Ala Gly Trp
 100 105 110
 Thr Thr Thr Ala Asp Thr Thr Thr Gly Leu Trp Arg Ala Ser Gln Cys
 115 120 125
 Ser Gly Glu Ser Ile Leu Arg *
 130 135

<210> 1193
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1193
 Met Leu Ala Ser Arg Gln Ala Cys Cys Pro Pro Val Ser Ser Leu Phe
 1 5 10 15
 Leu Pro Leu Ser Pro Thr Leu Ser Gly Phe Phe Thr Val Cys Ser Val
 20 25 30
 Ser His Leu His Val Pro Arg Gly Pro Ala Arg Leu Cys Pro Arg Met
 35 40 45
 Ser His Gly Ser Pro Ser Gly Leu Pro Ala Glu Pro Ser Glu His Gly
 50 55 60
 Cys Leu Leu Val Val Gly Leu Gln Gln Asn Cys Thr Arg Leu Thr Ser
 65 70 75 80
 Pro Ile Leu Ser Ser Arg Gly Leu Arg Val Gln Arg Arg Val Asn Leu
 85 90 95
 Ala Asp *
 98

<210> 1194
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1194

Met Phe Ser Pro Ser Phe Gln Gly Ile Ile Thr Lys Val Arg Cys Val
 1 5 10 15
 Cys Val Ser Leu Ser Leu Cys Val Cys Val Cys Val Cys Val Cys Val
 20 25 30
 Cys Val Tyr Lys Glu Pro Gly Met Arg Ala Gly Arg Gly Gly Ser Arg
 35 40 45
 Leu *
 49

<210> 1195
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1195
 Met Gln Gly Val Arg Val Ser Phe Gly Trp Ala Met Gly Leu Ala Trp
 1 5 10 15
 Gly Ser Cys Ala Leu Glu Ala Phe Ser Gly Thr Leu Leu Leu Ser Ala
 20 25 30
 Ala Trp Thr Leu Ser Leu Ser Pro Pro Ile Cys Gly His Leu Ser Pro
 35 40 45
 Gln Gln Val Gly Gly Arg Gly Gly Asp *
 50 55 57

<210> 1196
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 1196
 Met Leu Pro Asn Ser Ser Ser Leu Trp Leu Val Met Arg Ile Leu Ile
 1 5 10 15
 Phe Cys Val Ile Pro Ala Gly Gly Val Leu Gly Ala Pro Thr Ala Ala
 20 25 30
 Gly Leu Arg Pro Thr Gly Asp Val Ala Leu Arg Arg Pro Ala Gly Ser
 35 40 45
 Val Glu Pro Ser Gly Ser Arg Gly Leu Arg Ala Ser Val Cys Gln Arg
 50 55 60
 Leu Ser Met Phe Leu Ala His Phe Leu Arg Gly His Phe Leu Trp Trp
 65 70 75 80
 Ile Leu Asp Gly Gln Arg Leu Gly Phe Pro Leu Ser Leu Ala Thr Trp
 85 90 95
 Asn Arg Arg Lys Lys Ser Leu Gln His Leu Leu His Lys His Val Leu
 100 105 110
 Pro Val Arg Arg His Ala Gly Pro Cys Arg Gly Pro Gln Thr Thr Ala
 115 120 125
 Arg Gly Pro Arg
 130 132

<210> 1197
 <211> 64

<212> PRT

<213> Homo sapiens

<400> 1197

```

Met Pro Tyr Leu Ile Leu Phe Phe Ala Val Tyr Ile Leu Tyr Lys Ile
 1           5           10           15
Leu Val Lys Val His Leu Phe Ile Ala Glu Ile Ala Leu Tyr Asp Phe
           20           25           30
Leu Lys Phe Phe Glu Leu Tyr Gly Ile Cys Met Phe Lys Thr Leu Thr
           35           40           45
Cys Leu Val Val Thr Thr Leu Ile Phe Ile Asn Leu Leu Ser Leu *
 50           55           60           63

```

<210> 1198

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1198

```

Met Leu Gly Pro Pro Glu Ala Arg Leu Ser Leu Cys Ile Leu Leu Trp
 1           5           10           15
Ile Ser Ile Leu Cys Pro Trp Tyr Arg Phe Thr Leu Tyr Cys Ser Ser
           20           25           30
Trp Pro Tyr Pro Ile Phe Asp Ser Gly Tyr Arg Pro Leu Phe Gly Thr
           35           40           45
Thr Leu Leu Phe *
 50           52

```

<210> 1199

<211> 50

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(50)

<223> Xaa = any amino acid or nothing

<400> 1199

```

Met Leu Arg Leu Gly Leu Cys Ala Ala Ala Leu Leu Cys Val Cys Arg
 1           5           10           15
Pro Gly Ala Val Arg Ala Asp Cys Trp Leu Ile Glu Gly Asp Lys Gly
           20           25           30
Tyr Val Trp Leu Ala Ile Cys Asn Gln Asn Gln Pro Ala Tyr Glu Thr
           35           40           45
Xaa Pro
 50

```

<210> 1200

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1200

```

Met Gly Trp Ser Cys Leu Ala Ile Leu Ser Ser Ala Ile Gly His Leu
 1           5           10           15
Ile Cys Leu Trp Pro Phe Ala Met Val Val Ala Leu Phe Pro Tyr Leu
           20           25           30
Gly Tyr Phe Ser Gly Ser Leu Ser Thr Gln Ile Gly Ser Asp Leu Pro
      35           40           45           48

```

*

<210> 1201

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1201

```

Met Trp Ala Gly Tyr Val Ile Tyr Thr Leu Phe Cys Arg Phe Ser Phe
 1           5           10           15
Ser Leu Ile Ser Ile Arg Ile Arg Lys Leu Gly Ser Ile Gly Phe Glu
           20           25           30
Leu Pro Leu Gly Asn Asn Ser Gln Leu Gly Cys Pro Leu *
      35           40           45

```

<210> 1202

<211> 332

<212> PRT

<213> Homo sapiens

<400> 1202

```

Met Pro Leu Pro Trp Ser Leu Ala Leu Pro Leu Leu Leu Ser Trp Val
 1           5           10           15
Ala Gly Gly Phe Gly Asn Ala Ala Ser Ala Arg His His Gly Leu Leu
           20           25           30
Ala Ser Ala Arg Gln Pro Gly Val Cys His Tyr Gly Thr Lys Leu Ala
           35           40           45
Cys Cys Tyr Gly Trp Arg Arg Asn Ser Lys Gly Val Cys Glu Ala Thr
           50           55           60
Cys Glu Pro Gly Cys Lys Phe Gly Glu Cys Val Gly Pro Asn Lys Cys
           65           70           75           80
Arg Cys Phe Pro Gly Tyr Thr Gly Lys Thr Cys Ser Gln Asp Val Asn
           85           90           95
Glu Cys Gly Met Lys Pro Arg Pro Cys Gln His Arg Cys Val Asn Thr
           100          105          110
His Gly Ser Tyr Lys Cys Phe Cys Leu Ser Gly His Met Leu Met Pro
           115          120          125
Asp Ala Thr Cys Val Asn Ser Arg Thr Cys Ala Met Ile Asn Cys Gln
           130          135          140
Tyr Ser Cys Glu Asp Thr Glu Glu Gly Pro Gln Cys Leu Cys Pro Ser
           145          150          155          160
Ser Gly Leu Arg Leu Ala Pro Asn Gly Arg Asp Cys Leu Asp Ile Asp

```

```

      165      170      175
Glu Cys Ala Ser Gly Lys Val Ile Cys Pro Tyr Asn Arg Arg Cys Val
      180      185      190
Asn Thr Phe Gly Ser Tyr Tyr Cys Lys Cys His Ile Gly Phe Glu Leu
      195      200      205
Gln Tyr Ile Ser Gly Arg Tyr Asp Cys Ile Asp Ile Asn Glu Cys Thr
      210      215      220
Met Asp Ser His Thr Cys Ser His His Ala Asn Cys Phe Asn Thr Gln
      225      230      235      240
Gly Ser Phe Lys Cys Lys Cys Lys Gln Gly Tyr Lys Gly Asn Gly Leu
      245      250      255
Arg Cys Ser Ala Ile Pro Glu Asn Ser Val Lys Glu Val Leu Arg Ala
      260      265      270
Pro Gly Thr Ile Lys Asp Arg Ile Lys Lys Leu Leu Ala His Lys Asn
      275      280      285
Ser Met Lys Lys Lys Ala Lys Ile Lys Asn Val Thr Pro Glu Pro Thr
      290      295      300
Arg Thr Pro Thr Pro Lys Val Asn Leu Gln Pro Phe Asn Tyr Glu Glu
      305      310      315      320
Ile Val Ser Arg Gly Gly Asn Ser His Gly Gly *
      325      330 331

```

<210> 1203

<211> 825

<212> PRT

<213> Homo sapiens

<400> 1203

```

Met Ala Arg Leu Gly Asn Cys Ser Leu Thr Trp Ala Ala Leu Ile Ile
  1      5      10      15
Leu Leu Leu Pro Gly Ser Leu Glu Glu Cys Gly His Ile Ser Val Ser
      20      25      30
Ala Pro Ile Val His Leu Gly Asp Pro Ile Thr Ala Ser Cys Ile Ile
      35      40      45
Lys Gln Asn Cys Ser His Leu Asp Pro Glu Pro Gln Ile Leu Trp Arg
      50      55      60
Leu Gly Ala Glu Leu Gln Pro Gly Gly Arg Gln Arg Leu Ser Asp
      65      70      75      80
Gly Thr Gln Glu Ser Ile Ile Thr Leu Pro His Leu Asn His Thr Gln
      85      90      95
Ala Phe Leu Ser Cys Cys Leu Asn Trp Gly Asn Ser Leu Gln Ile Leu
      100      105      110
Asp Gln Val Glu Leu Arg Ala Gly Tyr Pro Pro Ala Ile Pro His Asn
      115      120      125
Leu Ser Cys Leu Met Asn Leu Thr Thr Ser Ser Leu Ile Cys Gln Trp
      130      135      140
Glu Pro Gly Pro Glu Thr His Leu Pro Thr Ser Phe Thr Leu Lys Ser
      145      150      155      160
Phe Lys Ser Arg Gly Asn Cys Gln Thr Gln Gly Asp Ser Ile Leu Asp
      165      170      175
Cys Val Pro Lys Asp Gly Gln Ser His Cys Cys Ile Pro Arg Lys His
      180      185      190
Leu Leu Leu Tyr Gln Asn Met Gly Ile Trp Val Gln Ala Glu Asn Ala
      195      200      205
Leu Gly Thr Ser Met Ser Pro Gln Leu Cys Leu Asp Pro Met Asp Val
      210      215      220

```

Val Lys Leu Glu Pro Pro Met Leu Arg Thr Met Asp Pro Ser Pro Glu
 225 230 235 240
 Ala Ala Pro Pro Gln Ala Gly Cys Leu Gln Leu Cys Trp Glu Pro Trp
 245 250 255
 Gln Pro Gly Leu His Ile Asn Gln Lys Cys Glu Leu Arg His Lys Pro
 260 265 270
 Gln Arg Gly Glu Ala Ser Trp Ala Leu Val Gly Pro Leu Pro Leu Glu
 275 280 285
 Ala Leu Gln Tyr Glu Leu Cys Gly Leu Leu Pro Ala Thr Ala Tyr Thr
 290 295 300
 Leu Gln Ile Arg Cys Ile Arg Trp Pro Leu Pro Gly His Trp Ser Asp
 305 310 315 320
 Trp Ser Pro Ser Leu Glu Leu Arg Thr Thr Glu Arg Ala Pro Thr Val
 325 330 335
 Arg Leu Asp Thr Trp Trp Arg Gln Arg Gln Leu Asp Pro Arg Thr Val
 340 345 350
 Gln Leu Phe Trp Lys Pro Val Pro Leu Glu Glu Asp Ser Gly Arg Ile
 355 360 365
 Gln Gly Tyr Val Val Ser Trp Arg Pro Ser Gly Gln Ala Gly Ala Ile
 370 375 380
 Leu Pro Leu Cys Asn Thr Thr Glu Leu Ser Cys Thr Phe His Leu Pro
 385 390 395 400
 Ser Glu Ala Gln Glu Val Ala Leu Val Ala Tyr Asn Ser Ala Gly Thr
 405 410 415
 Ser Arg Pro Thr Pro Val Val Phe Ser Glu Ser Arg Gly Pro Ala Leu
 420 425 430
 Thr Arg Leu His Ala Met Ala Arg Asp Pro His Ser Leu Trp Val Gly
 435 440 445
 Trp Glu Pro Pro Asn Pro Trp Pro Gln Gly Tyr Val Ile Glu Trp Gly
 450 455 460
 Leu Gly Pro Pro Ser Ala Ser Asn Ser Asn Lys Thr Trp Arg Met Glu
 465 470 475 480
 Gln Asn Gly Arg Ala Thr Gly Phe Leu Leu Lys Glu Asn Ile Arg Pro
 485 490 495
 Phe Gln Leu Tyr Glu Ile Ile Val Thr Pro Leu Tyr Gln Asp Thr Met
 500 505 510
 Gly Pro Ser Gln His Val Tyr Ala Tyr Ser Gln Glu Met Ala Pro Ser
 515 520 525
 His Ala Pro Glu Leu His Leu Lys His Ile Gly Lys Thr Trp Ala Gln
 530 535 540
 Leu Glu Trp Val Pro Glu Pro Pro Glu Leu Gly Lys Ser Pro Leu Thr
 545 550 555 560
 His Tyr Thr Ile Phe Trp Thr Asn Ala Gln Asn Gln Ser Phe Ser Ala
 565 570 575
 Ile Leu Asn Ala Ser Ser Arg Gly Phe Val Leu His Gly Leu Glu Pro
 580 585 590
 Ala Ser Leu Tyr His Ile His Leu Met Ala Ala Ser Gln Ala Gly Ala
 595 600 605
 Thr Asn Ser Thr Val Leu Thr Leu Met Thr Leu Thr Pro Ala Pro Thr
 610 615 620
 Gly Arg Ile Pro Ser Gly Gln Val Ser Gln Thr Gln Leu Thr Ala Ala
 625 630 635 640
 Trp Ala Pro Gly Cys Pro Gln Ser Trp Arg Arg Met Pro Ser Ser Cys
 645 650 655
 Pro Ala Leu Ala Arg His Pro Ser Pro Ser Ser Gln Cys Trp Arg Arg
 660 665 670
 Met Lys Arg Ser Arg Cys Pro Gly Ser Pro Ile Thr Ala Gln Arg Pro
 675 680 685
 Val Ala Ser Pro Leu Trp Ser Arg Pro Met Cys Ser Arg Gly Thr Gln

690 695 700
 Glu Gln Phe Pro Pro Ser Pro Asn Pro Ser Leu Ala Pro Ala Ile Arg
 705 710 715 720
 Ser Phe Met Gly Ser Cys Trp Ala Ala Pro Gln Ala Gln Gly Gln Gly
 725 730 735
 Thr Ile Ser Ala Val Thr Pro Leu Ser Pro Ser Trp Arg Ala Ser Pro
 740 745 750
 Pro Ala Pro Ser Pro Met Arg Thr Ser Gly Ser Arg Pro Ala Pro Trp
 755 760 765
 Gly Pro Leu Val Thr Pro Ser Pro Lys Ser Gln Glu Asp Asp Cys Val
 770 775 780
 Phe Gly Pro Leu Leu Asn Phe Pro Pro Ser Cys Arg Gly Ser Gly Ser
 785 790 795 800
 Met Gly Trp Arg Arg Trp Gly Ala Ser Arg Ala Ser Leu Gly Phe Pro
 805 810 815
 Ser Trp Ala Cys Leu Leu Lys Ala *
 820 824

<210> 1204
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1204
 Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
 1 5 10 15
 Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
 20 25 30
 Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu *
 35 40 45 47

<210> 1205
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1205
 Met Gly Ser Phe Ser Phe Ile Leu Val Leu Phe Ile Asp Cys Leu Cys
 1 5 10 15
 Met Phe Pro Ser Val Leu Val Gln Leu Leu Cys Thr Tyr Ser Ser Leu
 20 25 30
 Met Lys Thr Pro Leu Trp Leu Gln Ala Arg Ser Ser His *
 35 40 45

<210> 1206
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1206

```

Met Gln Trp Cys Asn Leu Thr Ala Thr Ser Ala Phe Gln Ile Glu Ala
 1           5           10           15
Ile Leu Leu Pro Gln Leu Ser Pro Val Ala Gly Ile Thr Gly Thr Cys
      20           25           30
Tyr His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe His
      35           40           45
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro
      50           55           60
Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Ser Val Ser His His Ala
      65           70           75           80
Gln Pro Leu Lys Gly Thr Phe *
      85           87

```

```

<210> 1207
<211> 186
<212> PRT
<213> Homo sapiens

```

```

<400> 1207
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1           5           10           15
Val Met Ser Pro Cys Gly Gly Glu Asp Ile Val Ala Asp His Val Ala
      20           25           30
Ser Tyr Gly Val Asn Leu Tyr Gln Ser Tyr Gly Pro Ser Gly Gln Tyr
      35           40           45
Ser His Glu Phe Asp Gly Asp Glu Glu Phe Tyr Val Asp Leu Glu Arg
      50           55           60
Lys Glu Thr Val Trp Gln Leu Pro Leu Phe Arg Arg Phe Arg Arg Phe
      65           70           75           80
Asp Pro Gln Phe Ala Leu Thr Asn Ile Ala Val Leu Lys His Asn Leu
      85           90           95
Asn Ile Val Ile Lys Arg Ser Asn Ser Thr Ala Ala Thr Asn Glu Val
      100           105           110
Pro Glu Val Thr Val Phe Ser Lys Ser Pro Val Thr Leu Gly Gln Pro
      115           120           125
Asn Thr Leu Ile Cys Leu Val Asp Asn Ile Phe Pro Pro Val Val Asn
      130           135           140
Ile Thr Trp Leu Ser Asn Gly His Ser Val Thr Glu Gly Val Ser Glu
      145           150           155           160
Thr Arg Pro Ser Ser Pro Lys Ser Asp His Phe Leu Leu Gln Asp Gln
      165           170           175
Val Thr Ser Pro Ser Phe Pro Phe Glu *
      180           185

```

```

<210> 1208
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1208
Met Asn Pro His Leu Gly Val Phe Leu Val Leu Val Ser Phe Phe Leu
 1           5           10           15
Ser Leu Leu Asp Ser Gln Leu His Ser Trp Ile Val Leu His Asn Ser

```

20 25 30
Pro Ser Ser Arg Met Trp Lys Ser Ile Ile Phe Phe Leu *
35 40 45

```
<210> 1209
<211> 199
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1210
<211> 59
<212> PRT
<213> Homo sapiens
```

```

Met Leu Val Thr Arg Pro Ser Gly Asn Thr Trp Ile Pro Phe Phe Cys
  1          5          10          15
Trp Leu Leu Phe Cys Val Val Glu Leu Leu Ser Pro Gly Asn Leu Gly
      20          25          30
Pro Ser Val Leu Glu Val Val Leu Pro Asp Val Phe Lys Leu Asp Leu
      35          40          45
Leu Ser Ser Leu Leu Asp Val Gly Ser Leu *
  50          55          58

```

<210> 1211
 <211> 227
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(227)
 <223> Xaa = any amino acid or nothing

<400> 1211
 Met Ala Ser Ile Cys Ser Trp Arg Val Met Leu Ala Trp Ala Ala Cys
 1 5 10 15
 Trp Val Arg Ala His Ala Ala Leu Ser Gly His Pro Arg Ser Thr Phe
 20 25 30
 Ser Leu Trp Leu Ser Gly Ile Ser Leu Pro Xaa Pro Ile Phe Leu Pro
 35 40 45
 Met Ala Val Ser Leu Leu Thr Pro Lys Asp Val Lys Tyr Ala Arg Ser
 50 55 60
 Pro Asn Cys Phe Lys Ala Ala Leu Asn Ile Pro Asp Pro Gly Ala Val
 65 70 75 80
 His Leu Ile Ile Ala Leu Leu Leu Thr Asp Gly Ala Ile Pro Leu Leu
 85 90 95
 Gln Pro Ala Arg Val Lys Lys Ser Asn Ala His Val Phe Leu His Phe
 100 105 110
 Ala Gly Gly Asp Leu Leu Pro Ser Asn Gly Gly His Lys Ile Leu Ile
 115 120 125
 Trp Ser Arg Gly Trp Arg Gln Gly Leu Gly Gly Phe Gly Ile Ile Ile
 130 135 140
 Leu Ala Asp Asn Asp Leu Val Trp Ser Trp Gly Gln Ser Trp Arg His
 145 150 155 160
 Gly Cys Leu Leu Gly Val Gly Ala Leu Ser Ala Leu Leu Leu His His
 165 170 175
 Leu Asn Pro His Pro Tyr Leu Val Leu Gly Cys Pro Gly Pro Ala Gly
 180 185 190
 Lys Glu Ala Pro Pro Pro Ser Pro Val Cys His Pro Pro His Gln Thr
 195 200 205
 Arg Pro Pro Ser Gln Leu Pro His Ser Pro Gln Thr Phe His Ser Ala
 210 215 220
 Pro Glu *
 225 226

<210> 1212
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1212
 Met Cys Val Ser Val Arg Val Cys Val Cys Val Cys Val Cys Ala Arg
 1 5 10 15
 Val Cys Ala Arg Leu Cys Val Cys Val His Ala Arg Leu Cys Val His
 20 25 30
 Val Arg Val Ser Ala Arg Val Ser Val Tyr Val Cys Thr Arg Val Ser
 35 40 45
 Val Cys Val His Ala Arg Ala Arg His His Arg Ser Ile *

50

55

60 61

<210> 1213

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1213

```

Met Phe Arg Arg Leu Thr Phe Ala Gln Leu Leu Phe Ala Thr Val Leu
 1           5           10           15
Gly Ile Ala Gly Gly Val Tyr Ile Phe Gln Pro Val Phe Glu Gln Tyr
      20           25           30
Ala Lys Asp Gln Lys Glu Leu Lys Glu Lys Met Gln Leu Val Gln Glu
      35           40           45
Ser Glu Glu Lys Lys Ser *
 50           54

```

<210> 1214

<211> 642

<212> PRT

<213> Homo sapiens

<400> 1214

```

Met Thr Met Tyr Leu Trp Leu Lys Leu Leu Ala Phe Gly Phe Ala Phe
 1           5           10           15
Leu Asp Thr Glu Val Phe Val Thr Gly Gln Ser Pro Thr Pro Ser Pro
      20           25           30
Thr Asp Ala Tyr Leu Asn Ala Ser Glu Thr Thr Thr Leu Ser Pro Ser
      35           40           45
Gly Ser Ala Val Ile Ser Thr Thr Thr Ile Ala Thr Thr Pro Ser Lys
      50           55           60
Pro Thr Cys Asp Glu Lys Tyr Ala Asn Ile Thr Val Asp Tyr Leu Tyr
      65           70           75           80
Asn Lys Glu Thr Lys Leu Phe Thr Ala Lys Leu Asn Val Asn Glu Asn
      85           90           95
Val Glu Cys Gly Asn Asn Thr Cys Thr Asn Asn Glu Val His Asn Leu
      100           105           110
Thr Glu Cys Lys Asn Ala Ser Val Ser Ile Ser His Asn Ser Cys Thr
      115           120           125
Ala Pro Asp Lys Thr Leu Ile Leu Asp Val Pro Pro Gly Val Glu Lys
      130           135           140
Phe Gln Leu His Asp Cys Thr Gln Val Glu Lys Ala Asp Thr Thr Ile
      145           150           155           160
Cys Leu Lys Trp Lys Asn Ile Glu Thr Phe Thr Cys Asp Thr Gln Asn
      165           170           175
Ile Thr Tyr Arg Phe Gln Cys Gly Asn Met Ile Phe Asp Asn Lys Glu
      180           185           190
Ile Lys Leu Glu Asn Leu Glu Pro Glu His Glu Tyr Lys Cys Asp Ser
      195           200           205
Glu Ile Leu Tyr Asn Asn His Lys Phe Thr Asn Ala Ser Lys Ile Ile
      210           215           220
Lys Thr Asp Phe Gly Ser Pro Gly Glu Pro Gln Ile Ile Phe Cys Arg
      225           230           235           240

```



```

Ser Glu Ala Ala His Gln Gly Val Ile Thr Trp Asn Pro Pro Gln Arg
      245              250              255
Ser Phe His Asn Phe Thr Leu Cys Tyr Ile Lys Glu Thr Glu Lys Asp
      260              265              270
Cys Leu Asn Leu Asp Lys Asn Leu Ile Lys Tyr Asp Leu Gln Asn Leu
      275              280              285
Lys Pro Tyr Thr Lys Tyr Val Leu Ser Leu His Ala Tyr Ile Ile Ala
      290              295              300
Lys Val Gln Arg Asn Gly Ser Ala Ala Met Cys His Phe Thr Thr Lys
      305              310              315              320
Ser Ala Pro Pro Ser Gln Val Trp Asn Met Thr Val Ser Met Thr Ser
      325              330              335
Asp Asn Ser Met His Val Lys Cys Arg Pro Pro Arg Asp Arg Asn Gly
      340              345              350
Pro His Glu Arg Tyr His Leu Glu Val Glu Ala Gly Asn Thr Leu Val
      355              360              365
Arg Asn Glu Ser His Lys Asn Cys Asp Phe Arg Val Lys Asp Leu Gln
      370              375              380
Tyr Ser Thr Asp Tyr Thr Phe Lys Ala Tyr Phe His Asn Gly Asp Tyr
      385              390              395              400
Pro Gly Glu Pro Phe Ile Leu His His Ser Thr Ser Tyr Asn Ser Lys
      405              410              415
Ala Leu Ile Ala Phe Leu Ala Phe Leu Ile Ile Val Thr Ser Ile Ala
      420              425              430
Leu Leu Val Val Leu Tyr Lys Ile Tyr Asp Leu His Lys Lys Arg Ser
      435              440              445
Cys Asn Leu Asp Glu Gln Gln Glu Leu Val Glu Arg Asp Asp Glu Lys
      450              455              460
Gln Leu Met Asn Val Glu Pro Ile His Ala Asp Ile Leu Leu Glu Thr
      465              470              475              480
Tyr Lys Arg Lys Ile Ala Asp Glu Gly Arg Leu Phe Leu Ala Glu Phe
      485              490              495
Gln Ser Ile Pro Arg Val Phe Ser Lys Phe Pro Ile Lys Glu Ala Arg
      500              505              510
Lys Pro Phe Asn Gln Asn Lys Asn Arg Tyr Val Asp Ile Leu Pro Tyr
      515              520              525
Asp Tyr Asn Arg Val Glu Leu Ser Glu Ile Asn Gly Asp Ala Gly Ser
      530              535              540
Asn Tyr Ile Asn Ala Ser Tyr Ile Asp Gly Phe Lys Glu Pro Arg Lys
      545              550              555              560
Tyr Ile Ala Ala Gln Gly Pro Arg Asp Glu Thr Val Asp Asp Phe Trp
      565              570              575
Arg Met Ile Trp Glu Gln Lys Ala Thr Val Ile Val Met Val Thr Arg
      580              585              590
Cys Glu Glu Gly Asn Arg Asn Lys Cys Ala Glu Tyr Trp Pro Ser Met
      595              600              605
Glu Glu Gly Thr Arg Ala Phe Gly Glu Cys Cys Cys Lys Asp Leu Thr
      610              615              620
Lys His Lys Arg Cys Pro Arg Leu His His Ser Glu Ile Glu His Cys
      625              630              635              640
Lys *
641

```

<210> 1215

<211> 85

<212> PRT

<213> Homo sapiens

<400> 1215

```

Met Leu Phe Leu Thr Leu Ile Ser Phe Cys Gly Phe Leu Leu Leu His
 1           5           10           15
Arg Leu Thr Ser Met Val Arg Leu Phe Leu Gly Ala Ala Ile Gln Lys
           20           25           30
Ile Leu Ser Lys Arg Leu Glu Phe Ser Leu Leu Pro Leu Val Ser Phe
           35           40           45
Ala Gly Ser Val Asn Met Ala Gly Pro Cys Thr Ala Asn Ala Gly Pro
           50           55           60
His Gly Gly Leu Gly Lys Pro Gly Arg Leu Cys Gly Ser Phe Arg Ser
           65           70           75           80
Ser Arg Ser Gln *
           84

```

<210> 1216

<211> 403

<212> PRT

<213> Homo sapiens

<400> 1216

```

Met Ala Ser Val Val Leu Pro Ser Gly Ser Gln Cys Ala Ala Ala Ala
 1           5           10           15
Ala Ala Ala Ala Pro Pro Gly Leu Arg Leu Arg Leu Leu Leu Leu
           20           25           30
Phe Ser Ala Ala Ala Leu Ile Pro Thr Gly Asp Gly Gln Asn Leu Phe
           35           40           45
Thr Lys Asp Val Thr Val Ile Glu Gly Glu Val Ala Thr Ile Ser Cys
           50           55           60
Gln Val Asn Lys Ser Asp Ser Val Ile Gln Leu Leu Asn Pro Asn
           65           70           75           80
Arg Gln Thr Ile Tyr Phe Arg Asp Phe Arg Pro Leu Lys Asp Ser Arg
           85           90           95
Phe Gln Leu Leu Asn Phe Ser Ser Ser Glu Leu Lys Val Ser Leu Thr
           100          105          110
Asn Val Ser Ile Ser Asp Glu Gly Arg Tyr Phe Cys Gln Leu Tyr Thr
           115          120          125
Asp Pro Pro Gln Glu Ser Tyr Thr Thr Ile Thr Val Leu Val Pro Pro
           130          135          140
Arg Asn Leu Met Ile Asp Ile Gln Lys Asp Thr Ala Val Glu Gly Glu
           145          150          155          160
Glu Ile Glu Val Asn Cys Thr Ala Met Ala Ser Lys Pro Ala Thr Thr
           165          170          175
Ile Arg Trp Phe Lys Gly Asn Thr Glu Leu Lys Gly Lys Ser Glu Val
           180          185          190
Glu Glu Trp Ser Asp Met Tyr Thr Val Thr Ser Gln Leu Met Leu Lys
           195          200          205
Val His Lys Glu Asp Asp Gly Val Pro Val Ile Cys Gln Val Glu His
           210          215          220
Pro Ala Val Thr Gly Asn Leu Gln Thr Gln Arg Tyr Leu Glu Val Gln
           225          230          235          240
Tyr Lys Pro Gln Val His Ile Gln Met Thr Tyr Pro Leu Gln Gly Leu
           245          250          255
Thr Arg Glu Gly Asp Ala Leu Glu Leu Thr Cys Glu Ala Ile Gly Lys
           260          265          270

```

```

Pro Gln Pro Val Met Val Thr Trp Val Arg Val Asp Asp Glu Met Pro
      275                      280                      285
Gln His Ala Val Leu Ser Gly Pro Asn Leu Phe Ile Asn Asn Leu Asn
      290                      295                      300
Lys Thr Asp Asn Gly Thr Tyr Arg Cys Glu Ala Ser Asn Ile Val Gly
      305                      310                      315
Lys Ala His Ser Asp Tyr Met Leu Tyr Val Tyr Asp Pro Pro Thr Thr
      325                      330                      335
Ile Pro Pro Pro Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
      340                      345                      350
Thr Ile Leu Thr Ile Ile Thr Asp Ser Arg Ala Gly Glu Glu Gly Ser
      355                      360                      365
Ile Arg Ala Val Asp His Ala Val Ile Gly Gly Val Val Ala Val Val
      370                      375                      380
Val Phe Ala Met Leu Cys Leu Leu Ile Ile Leu Gly Arg Tyr Phe Ala
      385                      390                      395                      400
Gln Thr *
      402

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```

<210> 1217
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1217
Met Arg Ala Trp Ala Trp Pro Phe Cys Thr Ser Val Thr Ser Leu Ser
  1          5          10          15
Ala Met Ala Ser Pro Trp Arg Arg Trp Pro Arg Arg Pro Ala Ser Arg
      20          25          30
Thr Ala Ser Arg Ala Pro Ser Ala Gly Ile Ser Gly Ser Thr Ala Pro
      35          40          45          48
*
```

```

<210> 1218
<211> 304
<212> PRT
<213> Homo sapiens

```

```

<400> 1218
Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Arg Tyr
  1          5          10          15
Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
      20          25          30
Lys Asp Gln Gln Val Val Thr Ala Val Glu Tyr Gln Glu Ala Ile Leu
      35          40          45
Ala Cys Lys Thr Pro Lys Lys Thr Val Ser Ser Arg Leu Glu Trp Lys
      50          55          60
Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
      65          70          75          80
Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
      85          90          95
Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser

```

```

      100      105      110
Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
      115      120      125
Glu Val Leu Gly Asp Val His Val Leu Ala Pro Ala Val Pro Ser Cys
      130      135      140
Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys
      145      150      155      160
Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp
      165      170      175
Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn
      180      185      190
Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr
      195      200      205
Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser
      210      215      220
Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu
      225      230      235      240
Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val Ala Leu Val Ile
      245      250      255
Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe
      260      265      270
Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr
      275      280      285
Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys Ser Phe Ile Ile *
      290      295      300      303

```

<210> 1219

<211> 1126

<212> PRT

<213> Homo sapiens

<400> 1219

```

Met Trp Phe Leu Phe Leu Cys Pro Asn Leu Trp Ala Met Pro Val Gln
  1      5      10      15
Ile Ile Met Gly Val Ile Leu Leu Tyr Asn Leu Leu Gly Ser Ser Ala
      20      25      30
Leu Val Gly Ala Ala Val Ile Val Leu Leu Ala Pro Ile Gln Tyr Phe
      35      40      45
Ile Ala Thr Lys Leu Ala Glu Ala Gln Lys Ser Thr Leu Asp Tyr Ser
      50      55      60
Thr Glu Arg Leu Lys Lys Thr Asn Glu Ile Leu Lys Gly Ile Lys Leu
      65      70      75      80
Leu Lys Leu Tyr Ala Trp Glu His Ile Phe Cys Lys Ser Val Glu Glu
      85      90      95
Thr Arg Met Lys Glu Leu Ser Ser Leu Lys Thr Phe Ala Leu Tyr Thr
      100      105      110
Ser Leu Ser Ile Phe Met Asn Ala Ala Ile Pro Ile Ala Ala Val Leu
      115      120      125
Ala Thr Phe Val Thr His Ala Tyr Ala Ser Gly Asn Asn Leu Lys Pro
      130      135      140
Ala Glu Ala Phe Ala Ser Leu Ser Leu Phe His Ile Leu Val Thr Pro
      145      150      155      160
Leu Phe Leu Leu Ser Thr Val Val Arg Phe Ala Val Lys Ala Ile Ile
      165      170      175
Ser Val Gln Lys Leu Asn Glu Phe Leu Leu Ser Asp Glu Ile Gly Asp
      180      185      190

```

Asp Ser Trp Arg Thr Gly Glu Ser Ser Leu Pro Phe Glu Ser Cys Lys
 195 200 205
 Lys His Thr Gly Val Gln Pro Lys Thr Ile Asn Arg Lys Gln Pro Gly
 210 215 220
 Arg Tyr His Leu Asp Ser Tyr Glu Gln Ser Thr Arg Arg Leu Arg Pro
 225 230 235 240
 Ala Glu Thr Glu Asp Ile Ala Ile Lys Val Thr Asn Gly Tyr Phe Ser
 245 250 255
 Trp Gly Ser Gly Leu Ala Thr Leu Ser Asn Ile Asp Ile Arg Ile Pro
 260 265 270
 Thr Gly Gln Leu Thr Met Ile Val Gly Gln Val Gly Cys Gly Lys Ser
 275 280 285
 Ser Leu Leu Leu Ala Ile Leu Gly Glu Met Gln Thr Leu Glu Gly Lys
 290 295 300
 Val His Trp Ser Asn Val Asn Glu Ser Glu Pro Ser Phe Glu Ala Thr
 305 310 315 320
 Arg Ser Arg Asn Arg Tyr Ser Val Ala Tyr Ala Ala Gln Lys Pro Trp
 325 330 335
 Leu Leu Asn Ala Thr Val Glu Glu Asn Ile Thr Phe Gly Ser Pro Phe
 340 345 350
 Asn Lys Gln Arg Tyr Lys Ala Val Thr Asp Ala Cys Ser Leu Gln Pro
 355 360 365
 Asp Ile Asp Leu Leu Pro Phe Gly Asp Gln Thr Glu Ile Gly Glu Arg
 370 375 380
 Gly Ile Asn Leu Ser Gly Gly Gln Arg Gln Arg Ile Cys Val Ala Arg
 385 390 395 400
 Ala Leu Tyr Gln Asn Thr Asn Ile Val Phe Leu Asp Asp Pro Phe Ser
 405 410 415
 Ala Leu Asp Ile His Leu Ser Asp His Leu Met Gln Glu Gly Ile Leu
 420 425 430
 Lys Phe Leu Gln Asp Asp Lys Arg Thr Leu Val Leu Val Thr His Lys
 435 440 445
 Leu Gln Tyr Leu Thr His Ala Asp Trp Ile Ile Ala Met Lys Asp Gly
 450 455 460
 Ser Val Leu Arg Glu Gly Thr Leu Lys Asp Ile Gln Thr Lys Asp Val
 465 470 475 480
 Glu Leu Tyr Glu His Trp Lys Thr Leu Met Asn Arg Gln Asp Gln Glu
 485 490 495
 Leu Glu Lys Asp Met Glu Ala Asp Gln Thr Thr Leu Glu Arg Lys Thr
 500 505 510
 Leu Arg Arg Ala Met Tyr Ser Arg Glu Ala Lys Ala Gln Met Glu Asp
 515 520 525
 Glu Asp Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Asp Asn Met Ser
 530 535 540
 Thr Val Met Arg Leu Arg Thr Lys Met Pro Trp Lys Thr Cys Trp Arg
 545 550 555 560
 Tyr Leu Thr Ser Gly Gly Phe Phe Leu Leu Ile Leu Met Ile Phe Ser
 565 570 575
 Lys Leu Leu Lys His Ser Val Ile Val Ala Ile Asp Tyr Trp Leu Ala
 580 585 590
 Thr Trp Thr Ser Glu Tyr Ser Ile Asn Asn Thr Gly Lys Ala Asp Gln
 595 600 605
 Thr Tyr Tyr Val Ala Gly Phe Ser Ile Leu Cys Gly Ala Gly Ile Phe
 610 615 620
 Leu Cys Leu Val Thr Ser Leu Thr Val Glu Trp Met Gly Leu Thr Ala
 625 630 635 640
 Ala Lys Asn Leu His His Asn Leu Leu Asn Lys Ile Ile Leu Gly Pro
 645 650 655
 Ile Arg Phe Phe Asp Thr Thr Pro Leu Gly Leu Ile Leu Asn Arg Phe

660 665 670
 Ser Ala Asp Thr Asn Ile Ile Asp Gln His Ile Pro Pro Thr Leu Glu
 675 680 685
 Ser Leu Thr Arg Ser Thr Leu Leu Cys Leu Ser Ala Ile Gly Met Ile
 690 695 700
 Ser Tyr Ala Thr Pro Val Phe Leu Val Ala Leu Pro Leu Gly Val
 705 710 715 720
 Ala Phe Tyr Phe Ile Gln Lys Tyr Phe Arg Val Ala Ser Lys Asp Leu
 725 730 735
 Gln Glu Leu Asp Asp Ser Thr Gln Leu Pro Leu Leu Cys His Phe Ser
 740 745 750
 Glu Thr Ala Glu Gly Leu Thr Thr Ile Arg Ala Phe Arg His Glu Thr
 755 760 765
 Arg Phe Lys Gln Arg Met Leu Glu Leu Thr Asp Thr Asn Asn Ile Ala
 770 775 780
 Tyr Leu Phe Leu Ser Ala Ala Asn Arg Trp Leu Glu Val Arg Thr Asp
 785 790 795 800
 Tyr Leu Gly Ala Cys Ile Val Leu Thr Ala Ser Ile Ala Ser Ile Ser
 805 810 815
 Gly Ser Ser Asn Ser Gly Leu Val Gly Leu Gly Leu Leu Tyr Ala Leu
 820 825 830
 Thr Ile Thr Asn Tyr Leu Asn Trp Val Val Arg Asn Leu Ala Asp Leu
 835 840 845
 Glu Val Gln Met Gly Ala Val Lys Lys Val Asn Ser Phe Leu Thr Met
 850 855 860
 Glu Ser Glu Asn Tyr Glu Gly Thr Met Asp Pro Ser Gln Val Pro Glu
 865 870 875 880
 His Trp Pro Gln Glu Gly Glu Ile Lys Ile His Asp Leu Cys Val Arg
 885 890 895
 Tyr Glu Asn Asn Leu Lys Pro Val Leu Lys His Val Lys Ala Tyr Ile
 900 905 910
 Lys Pro Gly Gln Lys Val Gly Ile Cys Gly Arg Thr Gly Ser Gly Lys
 915 920 925
 Ser Ser Leu Ser Leu Ala Phe Phe Arg Met Val Asp Ile Phe Asp Gly
 930 935 940
 Lys Ile Val Ile Asp Gly Ile Asp Ile Ser Lys Leu Pro Leu His Thr
 945 950 955 960
 Leu Arg Ser Arg Leu Ser Ile Ile Leu Gln Asp Pro Ile Leu Phe Ser
 965 970 975
 Gly Ser Ile Arg Phe Asn Leu Asp Pro Glu Cys Lys Cys Thr Asp Asp
 980 985 990
 Arg Leu Trp Glu Ala Leu Glu Ile Ala Gln Leu Lys Asn Met Val Lys
 995 1000 1005
 Ser Leu Pro Gly Gly Leu Asp Ala Val Val Thr Glu Gly Gly Glu Asn
 1010 1015 1020
 Phe Ser Val Gly Gln Arg Gln Leu Phe Cys Leu Ala Arg Ala Phe Val
 1025 1030 1035 1040
 Arg Lys Ser Ser Ile Leu Ile Met Asp Glu Ala Thr Ala Ser Ile Asp
 1045 1050 1055
 Met Ala Thr Glu Asn Ile Leu Gln Lys Val Val Met Thr Ala Phe Ala
 1060 1065 1070
 Asp Arg Thr Val Val Thr Met Ala His Arg Val Ser Ser Ile Met Asp
 1075 1080 1085
 Ala Gly Leu Val Leu Val Phe Ser Glu Gly Ile Leu Val Glu Cys Asp
 1090 1095 1100
 Thr Val Pro Asn Leu Phe Ala His Lys Asn Gly Pro Phe Ser Thr Leu
 1105 1110 1115 1120
 Val Met Thr Asn Lys *
 1125

<210> 1220
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1220
 Met Ser Ser Val Ser Leu Ile Glu Phe Pro Leu Tyr Met Ile Cys Pro
 1 5 10 15
 Phe Ala Leu Ala Phe Lys Thr Phe Ser Leu Ala Leu Ile Leu Asp
 20 25 30
 Ile Leu Leu Thr Ile Phe Leu Asp Asp Ile His Phe Val *
 35 40 45

<210> 1221
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1221
 Met Leu Ile Leu Leu Leu Glu Phe Gly Ile Thr Ile Ile Lys Val
 1 5 10 15
 Thr Cys Arg Leu Arg Ile Val Leu Cys Tyr Arg Lys Tyr Lys Thr Lys
 20 25 30
 Arg Asn Lys Lys Leu Lys Leu Gly Asn Asn Ser Lys Phe Gln Arg Met
 35 40 45
 Cys Leu Arg Thr Ser Phe His *
 50 55

<210> 1222
 <211> 253
 <212> PRT
 <213> Homo sapiens

<400> 1222
 Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
 1 5 10 15
 Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
 20 25 30
 Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
 35 40 45
 Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
 50 55 60
 Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
 65 70 75 80
 Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
 85 90 95
 Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
 100 105 110
 Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu

```

      115      120      125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
  130      135      140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
  145      150      155      160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
      165      170      175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
      180      185      190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
      195      200      205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
      210      215      220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
      225      230      235      240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
      245      250      252

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<210> 1223
 <211> 858
 <212> PRT
 <213> Homo sapiens

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      <400> 1223
Met Lys Met Leu Thr Arg Leu Gln Val Leu Thr Leu Ala Leu Phe Ser
  1      5      10      15
Lys Gly Phe Leu Leu Ser Leu Gly Asp His Asn Phe Leu Arg Arg Glu
      20      25      30
Ile Lys Ile Glu Gly Asp Leu Val Leu Gly Gly Leu Phe Pro Ile Asn
      35      40      45
Glu Lys Gly Thr Gly Thr Glu Glu Cys Gly Arg Ile Asn Glu Asp Arg
      50      55      60
Gly Ile Gln Arg Leu Glu Ala Met Leu Phe Ala Ile Asp Glu Ile Asn
      65      70      75      80
Lys Asp Asp Tyr Leu Leu Pro Gly Val Lys Leu Gly Val His Ile Leu
      85      90      95
Asp Thr Cys Ser Arg Asp Thr Tyr Ala Leu Glu Gln Ser Leu Glu Phe
      100      105      110
Val Arg Ala Ser Leu Thr Lys Val Asp Glu Ala Glu Tyr Met Cys Pro
      115      120      125
Asp Gly Ser Tyr Ala Ile Gln Glu Asn Ile Pro Leu Leu Ile Ala Gly
      130      135      140
Val Ile Gly Gly Ser Tyr Ser Arg Val Ser Ile Gln Gly Ala Asn Leu
      145      150      155      160
Leu Arg Leu Phe Gln Ile Pro Gln Ile Arg Tyr Ala Ser Thr Ser Ala
      165      170      175
Lys Leu Ser Asp Lys Ser Arg Tyr Asp Tyr Phe Ala Arg Thr Val Pro
      180      185      190
Pro Asp Phe Tyr Gln Ala Lys Ala Met Ala Glu Ile Leu Arg Phe Phe
      195      200      205
Asn Trp Thr Tyr Val Ser Thr Val Ala Ser Glu Gly Asp Tyr Gly Glu
      210      215      220
Thr Gly Ile Glu Ala Phe Glu Gln Glu Ala Arg Leu Arg Asn Ile Cys
      225      230      235      240
Ile Ala Thr Ala Glu Lys Val Gly Arg Ser Asn Ile Arg Lys Ser Tyr
      245      250      255

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Asp Ser Val Ile Arg Glu Leu Leu Gln Lys Pro Asn Ala Arg Val Val
 260 265 270
 Val Leu Phe Met Arg Ser Asp Asp Ser Arg Glu Leu Ile Ala Ala Ala
 275 280 285
 Ser Arg Ala Asn Ala Ser Phe Thr Trp Val Ala Ser Asp Gly Trp Gly
 290 295 300
 Ala Gln Glu Ser Ile Ile Lys Gly Ser Glu His Val Ala Tyr Gly Ala
 305 310 315 320
 Ile Thr Leu Glu Leu Ala Ser Gln Pro Val Arg Gln Phe Asp Arg Tyr
 325 330 335
 Phe Gln Ser Leu Asn Pro Tyr Asn Asn His Arg Asn Pro Trp Phe Arg
 340 345 350
 Asp Phe Trp Glu Gln Lys Phe Gln Cys Ser Leu Gln Asn Lys Arg Asn
 355 360 365
 His Arg Arg Val Cys Asp Lys His Leu Ala Ile Asp Ser Ser Asn Tyr
 370 375 380
 Glu Gln Glu Ser Lys Ile Met Phe Val Val Asn Ala Val Tyr Ala Met
 385 390 395 400
 Ala His Ala Leu His Lys Met Gln Arg Thr Leu Cys Pro Asn Thr Thr
 405 410 415
 Lys Leu Cys Asp Ala Met Lys Ile Leu Asp Gly Lys Lys Leu Tyr Lys
 420 425 430
 Asp Tyr Leu Leu Lys Ile Asn Phe Thr Ala Pro Phe Asn Pro Asn Lys
 435 440 445
 Asp Ala Asp Ser Ile Val Lys Phe Asp Thr Phe Gly Asp Gly Met Gly
 450 455 460
 Arg Tyr Asn Val Phe Asn Phe Gln Asn Val Gly Gly Lys Tyr Ser Tyr
 465 470 475 480
 Leu Lys Val Gly His Trp Ala Glu Thr Leu Ser Leu Asp Val Asn Ser
 485 490 495
 Ile His Trp Ser Arg Asn Ser Val Pro Thr Ser Gln Cys Ser Asp Pro
 500 505 510
 Cys Ala Pro Asn Glu Met Lys Asn Met Gln Pro Gly Asp Val Cys Cys
 515 520 525
 Trp Ile Cys Ile Pro Cys Glu Pro Tyr Glu Tyr Leu Ala Asp Glu Phe
 530 535 540
 Thr Cys Met Asp Cys Gly Ser Gly Gln Trp Pro Thr Ala Asp Leu Thr
 545 550 555 560
 Gly Cys Tyr Asp Leu Pro Glu Asp Tyr Ile Arg Trp Glu Asp Ala Trp
 565 570 575
 Ala Ile Gly Pro Val Thr Ile Ala Cys Leu Gly Phe Met Cys Thr Cys
 580 585 590
 Met Val Val Thr Val Phe Ile Lys His Asn Asn Thr Pro Leu Val Lys
 595 600 605
 Ala Ser Gly Arg Glu Leu Cys Tyr Ile Leu Leu Phe Gly Val Gly Leu
 610 615 620
 Ser Tyr Cys Met Thr Phe Phe Ile Ala Lys Pro Ser Pro Val Ile
 625 630 635 640
 Cys Ala Leu Arg Arg Leu Gly Leu Gly Ser Ser Phe Ala Ile Cys Tyr
 645 650 655
 Ser Ala Leu Leu Thr Lys Thr Asn Cys Ile Ala Arg Ile Phe Asp Gly
 660 665 670
 Val Lys Asn Gly Ala Gln Arg Pro Lys Phe Ile Ser Pro Ser Ser Gln
 675 680 685
 Val Phe Ile Cys Leu Gly Leu Ile Leu Val Gln Ile Val Met Val Ser
 690 695 700
 Val Trp Leu Ile Leu Glu Ala Pro Gly Thr Arg Arg Tyr Thr Leu Ala
 705 710 715 720
 Glu Lys Arg Glu Thr Val Ile Leu Lys Cys Asn Val Lys Asp Ser Ser

```

              725              730              735
Met Leu Ile Ser Leu Thr Tyr Asp Val Ile Leu Val Ile Leu Cys Thr
              740              745              750
Val Tyr Ala Phe Lys Thr Arg Lys Cys Pro Glu Asn Phe Asn Glu Ala
              755              760              765
Lys Phe Ile Gly Phe Thr Met Tyr Thr Thr Cys Ile Ile Trp Leu Ala
              770              775              780
Phe Leu Pro Ile Phe Tyr Val Thr Ser Ser Asp Tyr Arg Val Gln Thr
785              790              795              800
Thr Thr Met Cys Ile Ser Val Ser Leu Ser Gly Phe Val Val Leu Gly
              805              810              815
Cys Leu Phe Ala Pro Lys Val His Ile Ile Leu Phe Gln Pro Gln Lys
              820              825              830
Asn Val Val Thr His Arg Leu His Leu Asn Arg Phe Ser Val Ser Gly
              835              840              845
Thr Gly Thr His Ile Leu Ser Val Leu *
              850              855              857

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<210> 1224
<211> 69
<212> PRT
<213> Homo sapiens

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<400> 1224
Met Ser His Met Val Pro Leu Ala Leu Leu Leu Pro Leu Phe Pro Thr
 1              5              10              15
Ser Arg Arg Ala Ala Leu Pro Phe Leu Pro Leu Phe Phe Gly Leu Met
              20              25              30
Phe Pro Ala Thr Thr Asp Leu Pro Pro Pro His Pro Ser Ala Asp Leu
              35              40              45
Ala Val His Cys Arg His Gly Gly Leu Ile Ser Asp Arg Lys Leu Arg
              50              55              60
Leu Ser Glu Arg *
65              68

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<210> 1225
<211> 55
<212> PRT
<213> Homo sapiens

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<400> 1225
Met Cys Tyr His Thr Trp Leu Ile Phe Ile Phe Leu Val Glu Met Gly
 1              5              10              15
Phe Tyr His Val Gly Gln Ala Gly Phe Lys Leu Leu Ala Ser Ser Gly
              20              25              30
Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His
              35              40              45
His Ala Arg Pro Thr Phe *
              50              54

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<210> 1226

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<211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1226
 Met Ile Leu Ser Leu Leu Lys Phe Phe Pro Leu Leu Ser Ser Asp Thr
 1 5 10 15
 Pro Asn Ser Ser Val Pro Leu Leu Thr Thr Pro Arg Asp Pro Pro Tyr
 20 25 30
 His Leu Ser Pro Cys Ser Ser Ser Tyr Phe Val Lys Glu Gly Phe Ser
 35 40 45
 Val Val *
 50

<210> 1227
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1227
 Met Ile Leu Phe Cys Val Met Val Phe Ile Leu Phe Ile Thr Phe His
 1 5 10 15
 Leu Gln Leu Pro Thr Val Gly Asp Val Thr Tyr Cys Phe Cys Ser Asn
 20 25 30
 Lys Leu Arg Lys Thr Arg Glu Leu Lys Lys Ile Ser Ser Asn *
 35 40 45 46

<210> 1228
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1228
 Met Phe Ser Thr Ala Phe Trp Pro Pro Phe Leu Asn Pro Ser Leu Met
 1 5 10 15
 Phe Phe Thr Leu Leu Cys Ser Asp Phe Met Pro Cys Glu Ala Val Cys
 20 25 30
 Ser Ser Ile Ile Tyr Ser Phe Ile Pro Val Thr Lys Thr Gln Gly Ala
 35 40 45
 Ala Pro His Thr Arg Gly Pro Gln Pro His Thr *
 50 55 59

<210> 1229
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1229
 Met Cys Glu Ser Thr Glu Leu Asn Met Thr Phe His Leu Phe Ile Val

1 5 10 15
 Ala Leu Ala Gly Ala Gly Ala Ala Val Ile Ala Met Val His Tyr Leu
 20 25 30
 Met Val Leu Ser Ala Asn Trp Ala Tyr Val Lys Asp Ala Cys Arg Met
 35 40 45
 Ala Glu Val *
 50 51

<210> 1230
 <211> 362
 <212> PRT
 <213> Homo sapiens

<400> 1230
 Met Pro Val Ile Trp Ser Ala Leu Ser Ala Val Leu Leu Leu Ala Ser
 1 5 10 15
 Ser Tyr Phe Val Gly Ala Leu Ile Val His Ala Asp Cys Phe Leu Met
 20 25 30
 Arg Asn His Thr Ile Thr Glu Gln Pro Met Cys Phe Gln Arg Thr Thr
 35 40 45
 Pro Leu Ile Leu Gln Glu Val Ala Ser Phe Leu Lys Arg Asn Lys His
 50 55 60
 Gly Pro Phe Leu Leu Phe Val Ser Phe Leu His Val His Ile Pro Leu
 65 70 75 80
 Ile Thr Met Glu Asn Phe Leu Gly Lys Ser Leu His Gly Leu Tyr Gly
 85 90 95
 Asp Asn Val Lys Glu Met Asp Trp Met Val Gly Arg Ile Leu Asp Thr
 100 105 110
 Leu Asp Val Glu Gly Leu Ser Asn Ser Thr Leu Ile Tyr Phe Thr Ser
 115 120 125
 Asp His Gly Gly Ser Leu Glu Asn Gln Leu Gly Asn Thr Gln Tyr Gly
 130 135 140
 Gly Trp Asn Gly Ile Tyr Lys Gly Gly Lys Gly Met Gly Gly Trp Glu
 145 150 155 160
 Gly Gly Ile Arg Val Pro Gly Ile Phe Arg Trp Pro Gly Val Leu Pro
 165 170 175
 Ala Gly Arg Val Ile Gly Glu Pro Thr Ser Leu Met Asp Val Phe Pro
 180 185 190
 Thr Val Val Arg Leu Ala Gly Ser Glu Val Pro Gln Asp Arg Val Ile
 195 200 205
 Asp Gly Gln Asp Leu Leu Pro Leu Leu Leu Gly Thr Ala Gln His Ser
 210 215 220
 Asp His Glu Phe Leu Met His Tyr Cys Glu Arg Phe Leu His Ala Ala
 225 230 235 240
 Arg Trp His Gln Arg Asp Arg Gly Thr Met Trp Lys Val His Phe Val
 245 250 255
 Thr Pro Val Phe Gln Pro Arg Gly Ser Arg Cys Leu Leu Trp Lys Glu
 260 265 270
 Lys Val Cys Pro Cys Phe Gly Glu Lys Ser Ser Pro Pro Arg Ser His
 275 280 285
 Pro Cys Phe Phe Asp Leu Ser Arg Ala Pro Ser Glu Thr His Ile Leu
 290 295 300
 Thr Pro Ala Ser Glu Pro Val Phe Tyr Gln Val Met Glu Arg Ser Pro
 305 310 315 320
 Ala Gly Gly Val Gly Thr Pro Ala Asp Thr Gln Pro Ser Ser Ser Ala
 325 330 335

Ala Gly Gln Ala Gly Gln Tyr Leu Glu Thr Gly Gly Ala Ala Leu Leu
 340 345 350
 Trp Ala Val Pro Pro Leu Val Gly Pro *
 355 360 361

<210> 1231
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1231
 Met Leu Arg Leu Gly Val Ala Phe His Met Glu Leu Leu Cys Arg Gly
 1 5 10 15
 Arg Leu Leu Leu Leu Ile Pro Thr Ala Glu Thr Arg Cys Asp His Arg
 20 25 30
 Arg Leu Gln Asn Leu Lys Leu Gly Leu Ser Asn Thr Leu Asp Lys His
 35 40 45
 Gln Glu Pro His *
 50 52

<210> 1232
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1232
 Met Leu Asn Phe Ile Ser Pro Phe Gly Ser Thr Ile Leu Leu Leu Ile
 1 5 10 15
 Pro Ser Ala Leu Pro Pro Ser Pro Pro Ser Arg Cys Ser Leu Leu Ser
 20 25 30
 Pro Pro Pro Thr Thr Pro Leu Pro Leu Pro Leu Pro Ser Pro Phe Ser
 35 40 45
 Ser Pro Leu Leu Ser Phe Phe *
 50 55

<210> 1233
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1233
 Met Gln Leu His Val Ser Leu Pro Trp Leu Leu Arg Phe Pro Gly Leu
 1 5 10 15
 Asp Cys Thr Leu His Pro Asp Gln Pro Ser Ile Gln Leu Leu Gln Gly
 20 25 30
 Thr Ile Asp Leu Leu Asp Ser Val Ile Leu Ser Cys Ser Leu Cys Leu
 35 40 45
 Phe Gly Val Leu Gln Met His Ile
 50 55 56

<210> 1234
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1234
 Met Leu Ser Gln Leu Pro Arg Cys Gln Ser Ser Val Pro Ala Leu Ala
 1 5 10 15
 His Pro Thr Arg Leu His Tyr Leu Leu Arg Leu Leu Thr Phe Leu Leu
 20 25 30
 Gly Pro Gly Ala Gly Gly Ala Glu Ala Gln Gly Met Leu Gly Arg Ala
 35 40 45
 Leu Leu Leu Ser Ser Leu Pro Asp Asn Cys Ser Phe Trp Asp Ala Phe
 50 55 60
 Arg Pro Glu Gly Arg Arg Ser Val Leu Arg Thr Ile Gly Glu Tyr Leu
 65 70 75 80
 Glu Gln Asp Glu Glu Gln Pro Thr Pro Ser Gly Phe Glu Pro Thr Val
 85 90 95
 Asn Pro Ser Ser Gly Ile Ser Lys Met Glu Leu Leu Ala Cys Phe Ser
 100 105 110
 Val Ser Ala Leu Pro Glu Gly Lys Leu Leu Glu Gln *
 115 120 124

<210> 1235
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1235
 Met Phe Cys Phe Leu His Val Phe Leu Val Ser Leu Pro Phe Leu Thr
 1 5 10 15
 Ser Tyr Ser Cys Leu Gln Ile Ile Ser Tyr Ser Ser Phe Lys Ala Trp
 20 25 30
 Phe Lys Tyr Pro Phe Leu Cys Lys Ile Phe Pro Thr Leu Pro Asn Asn
 35 40 45
 Asp Ser Leu Gln Gln Thr Pro Leu Val His Gly Val Cys Leu Gln Gln
 50 55 60
 Gly Val His His Arg Leu Ile *
 65 70 71

<210> 1236
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1236
 Met Ala Pro Gly Gly Ala Lys Gly Gln Gly Ala Ser Ala Leu Ala Leu
 1 5 10 15
 Leu Phe Ile Leu Ala Ser Pro Ala Thr Gly Gly Gly Pro Arg Leu Trp
 20 25 30

Arg Ala Gly Gly Leu Gly Phe Thr His Cys Gln Ala Asn Ser Thr Thr
 35 40 45 48

<210> 1237
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 1237
 Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu
 1 5 10 15
 Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg
 20 25 30
 Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly
 35 40 45
 Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro
 50 55 60
 Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr
 65 70 75 80
 Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala
 85 90 95
 Phe Ile Leu Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu
 100 105 110
 Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu
 115 120 125
 Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser
 130 135 140
 Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys
 145 150 155 160
 Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro
 165 170 175
 Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn
 180 185 190
 Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys *
 195 200 205 207

<210> 1238
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 1238
 Met Lys Val Val Pro Ser Leu Leu Leu Ser Val Leu Leu Ala Gln Val
 1 5 10 15
 Trp Leu Val Pro Gly Leu Ala Pro Ser Pro Gln Ser Pro Glu Thr Pro
 20 25 30
 Ala Pro Gln Asn Gln Thr Ser Arg Val Val Gln Ala Pro Lys Glu Glu
 35 40 45
 Glu Glu Asp Glu Gln Glu Ala Ser Glu Glu Lys Ala Ser Glu Glu Glu
 50 55 60
 Lys Ala Trp Leu Met Ala Ser Arg Gln Gln Leu Ala Lys Glu Thr Ser

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65          70          75          80
Asn Phe Gly Phe Ser Leu Leu Arg Lys Ile Ser Met Arg His Asp Gly
      85          90          95
Asn Met Val Phe Ser Pro Phe Gly Met Ser Leu Ala Met Thr Gly Leu
      100          105          110
Met Leu Gly Ala Thr Gly Pro Thr Glu Thr Gln Ile Lys Arg Gly Leu
      115          120          125
His Leu Gln Ala Leu Lys Pro Thr Lys Pro Gly Leu Leu Pro Ser Leu
      130          135          140
Phe Lys Gly Leu Arg Glu Thr Leu Ser Arg Asn Leu Glu Leu Gly Leu
      145          150          155          160
Thr Ala Gly Glu Phe Cys Leu His Pro Gln Gly Phe *
      165          170          172

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<210> 1239
<211> 357
<212> PRT
<213> Homo sapiens

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<400> 1239
Met Ala Phe Leu Gly Leu Phe Ser Leu Leu Val Leu Gln Ser Met Ala
 1          5          10          15
Thr Gly Ala Thr Phe Pro Glu Glu Ala Ile Ala Asp Leu Ser Val Asn
      20          25          30
Met Tyr Asn Arg Leu Arg Ala Thr Gly Glu Asp Glu Asn Ile Leu Phe
      35          40          45
Ser Pro Leu Ser Ile Ala Leu Ala Met Gly Met Met Glu Leu Gly Ala
      50          55          60
Gln Gly Ser Thr Gln Lys Glu Ile Arg His Ser Met Gly Tyr Asp Ser
      65          70          75          80
Leu Lys Asn Gly Glu Glu Phe Ser Phe Leu Lys Glu Phe Ser Asn Met
      85          90          95
Val Thr Ala Lys Glu Ser Gln Tyr Val Met Lys Ile Ala Asn Ser Leu
      100          105          110
Phe Val Gln Asn Gly Phe His Val Asn Glu Glu Phe Leu Gln Met Met
      115          120          125
Lys Lys Tyr Phe Asn Ala Ala Val Asn His Val Asp Phe Ser Gln Asn
      130          135          140
Val Ala Val Ala Asn Tyr Ile Asn Lys Trp Val Glu Asn Asn Thr Asn
      145          150          155          160
Asn Leu Val Lys Asp Leu Val Ser Pro Arg Asp Phe Asp Ala Ala Thr
      165          170          175
Tyr Leu Ala Leu Ile Asn Ala Val Tyr Phe Lys Gly Asn Trp Lys Ser
      180          185          190
Gln Phe Arg Pro Glu Asn Thr Arg Thr Phe Ser Phe Thr Lys Asp Asp
      195          200          205
Glu Ser Glu Val Gln Ile Pro Met Met Tyr Gln Gln Gly Glu Phe Tyr
      210          215          220
Tyr Gly Glu Phe Ser Asp Gly Ser Asn Glu Ala Gly Gly Ile Tyr Gln
      225          230          235          240
Val Leu Glu Ile Pro Tyr Glu Gly Asp Glu Ile Ser Met Met Leu Val
      245          250          255
Leu Ser Arg Gln Glu Val Pro Leu Ala Thr Leu Glu Pro Leu Val Lys
      260          265          270
Ala Gln Leu Val Glu Glu Trp Ala Asn Ser Val Lys Lys Gln Lys Val
      275          280          285

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Glu Val Tyr Leu Pro Arg Phe Thr Val Glu Gln Glu Ile Asp Leu Lys
 290 295 300
 Asp Val Leu Lys Ala Leu Gly Ile Thr Glu Ile Phe Ile Lys Asp Ala
 305 310 315 320
 Asn Leu Thr Gly Leu Ser Asp Asn Lys Glu Ile Phe Leu Ser Lys Ala
 325 330 335
 Ile His Lys Ser Phe Leu Glu Val Asn Glu Glu Ala Gln Lys Leu Leu
 340 345 350
 Leu Ser Gln Glu *
 355 356

<210> 1240

<211> 707

<212> PRT

<213> Homo sapiens

<400> 1240

Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1 5 10 15
 Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
 20 25 30
 Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
 35 40 45
 Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
 50 55 60
 Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
 65 70 75 80
 Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
 85 90 95
 Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
 100 105 110
 Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
 115 120 125
 Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
 130 135 140
 Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
 145 150 155 160
 Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
 165 170 175
 Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
 180 185 190
 Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
 195 200 205
 Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe
 210 215 220
 Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr
 225 230 235 240
 Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln
 245 250 255
 Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser
 260 265 270
 Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe
 275 280 285
 Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr
 290 295 300
 His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser

```

305          310          315          320
Gln Leu Leu Met Arg Arg Ser Ala Tyr Arg Ile Arg Asp Gln Ile Trp
          325          330          335
Asp Val Tyr Tyr Arg Leu Asn Ile Arg Asp Ala Ile Ser Phe Val Asp
          340          345          350
Gln Gly Gly His Val Leu Ser Ser Thr Gly Leu Thr Leu Pro Ser Met
          355          360          365
Pro Ser Arg Asn Ser Val Ala Glu Thr Ser Val Thr Asn Leu Leu Arg
          370          375          380
Glu Ser Gly Ser Gly Ala Cys Leu Asp Leu Gln Val Ile Asp Thr Val
385          390          395          400
Arg Ser Gly Arg Asp Arg Glu Asp Ala Val Met His His Leu Leu Cys
          405          410          415
Gly Gly Leu Tyr Lys Pro Arg Arg Arg Tyr Lys Ala Ser Cys Ser Arg
          420          425          430
His Phe Ile Ser Glu Asp Ala Gln Glu Arg Gln Asp Lys Glu Val Phe
          435          440          445
Gln Gln Asn Met Lys Arg Arg Leu Glu Ser Phe Lys Ser Thr Lys His
          450          455          460
Asn Ile Cys Phe Thr Lys Ser Lys Pro Arg Pro Arg Lys Thr Gly Arg
465          470          475          480
Arg Lys Lys Asp Gly Val Ala Asn Ala Glu Ala Thr Asn Gly Lys His
          485          490          495
Arg Gly Leu Gly Phe Gln Asp Thr Ala Ala Val Ile Leu Thr Val Glu
          500          505          510
Ser Glu Glu Glu Glu Glu Ser Asp Ser Ser Glu Thr Glu Lys Glu
          515          520          525
Asp Asp Glu Gly Ile Ile Phe Val Ala Arg Ala Thr Ser Glu Val Leu
          530          535          540
Gln Glu Gly Lys Val Ser Gly Ser Leu Glu Val Cys Pro Ser Pro Arg
545          550          555          560
Ile Ile Pro Pro Ser Pro Thr Cys Ala Glu Lys Glu Leu Pro Trp Lys
          565          570          575
Ser Gly Gln Gly Asp Leu Ala Val Tyr Val Ser Ser Glu Thr Thr Lys
          580          585          590
Ile Val Pro Val Asp Met Gln Thr Gly Trp Asn Gln Ser Ile Ser Ser
          595          600          605
Leu Glu Ser Leu Ala Ser Pro Pro Cys Asn Gln Ala Pro Ile Leu Thr
          610          615          620
Cys Leu Pro Pro His Pro Arg Gly Thr Glu Glu Pro Gln Val Pro Leu
625          630          635          640
His Leu Pro Ser Asp Pro Arg Ser Ser Phe Ala Phe Pro Pro Ser Leu
          645          650          655
Ala Lys Ala Gly Arg Ser Arg Ser Glu Ser Ser Ala Asp Leu Pro Gln
          660          665          670
Gln Gln Glu Leu Gln Pro Leu Met Gly His Lys Asp His Thr His Leu
          675          680          685
Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
          690          695          700
Ser Arg Leu
705          707

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<210> 1241

<211> 98

<212> PRT

<213> Homo sapiens

<400> 1241

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Met Ala Phe Arg Thr Phe Ser Trp Ile Phe Ser Gly Leu Leu Ser Pro
 1          5          10          15
Thr Leu Ala Ser Pro Ser Val Ser Met Met Thr Met Glu Val Leu Leu
          20          25          30
Ser Gly Ile Leu Cys Ser Ser Arg Ala Leu Phe Ser Ile Leu Met Pro
          35          40          45
Leu Ser Ser Pro Ser Leu Met Leu Val Ile Pro Leu Ser Ser Met Leu
          50          55          60
Phe Thr Asn Val Leu Ala Ser Trp Arg Phe Ser Gly Val Ala Trp Thr
          65          70          75          80
Lys Cys Ser Phe His Val Asp Thr Ser Pro Leu Asn Arg Met Lys Phe
          85          90          95
Arg *
97

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<210> 1242

<211> 422

<212> PRT

<213> Homo sapiens

<400> 1242

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Met Val Leu Trp Glu Ser Pro Arg Gln Cys Ser Ser Trp Thr Leu Cys
 1          5          10          15
Glu Gly Phe Cys Trp Leu Leu Leu Leu Pro Val Met Leu Leu Ile Val
          20          25          30
Ala Arg Pro Val Lys Leu Ala Ala Phe Pro Thr Ser Leu Ser Asp Cys
          35          40          45
Gln Thr Pro Thr Gly Trp Asn Cys Ser Gly Tyr Asp Asp Arg Glu Asn
          50          55          60
Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys
          65          70          75          80
Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys Gln Phe Lys Cys Asn
          85          90          95
Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn
          100          105          110
Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu
          115          120          125
Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly
          130          135          140
Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser
          145          150          155          160
Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys Asp Glu Asn Ala Glu
          165          170          175
Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser Gln Thr Asn Phe Asn
          180          185          190
Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp Asn Ala Cys Gln Ile
          195          200          205
Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile Glu Val Leu Ser Leu
          210          215          220
Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr Lys Ser Glu Asp Gly
          225          230          235          240
His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala Asn Lys Leu Glu Glu
          245          250          255
Ser Ala Arg Glu His His Ile Pro Cys Pro Glu His Tyr Asn Gly Phe

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                260                265                270
Cys Met His Gly Lys Cys Glu His Ser Ile Asn Met Gln Glu Pro Ser
                275                280                285
Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His Cys Glu Lys Lys Asp
                290                295                300
Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val Arg Phe Pro Val Cys
305                310                315                320
Leu Asn Arg Ser Cys Asp Trp Asn Asn Ser Asp Cys Cys His Leu Cys
                325                330                335
Gly Gly Pro Leu His His Lys Glu Met Pro Pro Glu Ala Asn Arg Ile
                340                345                350
Pro Pro Asp Arg Ser Lys Ile Pro Gly His Tyr Ser Ser Arg Gln Tyr
                355                360                365
Asn Lys Ser Arg Pro Thr Arg Leu Ile Leu Lys Gly Ala Cys Phe His
                370                375                380
Ser Gly Trp Thr Thr Glu Ser Leu Asp Tyr Thr Ile Gln Tyr Tyr Arg
385                390                395                400
Gln Lys Asn Lys Thr Arg Asp Leu Thr His Val Cys Leu Ala Phe Val
                405                410                415
Gly Asn Leu His Gln *
                420 421

```

```

<210> 1243
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1243
Met Leu Phe Val Phe Ile Cys Ser Tyr Phe His Leu Ser Leu Phe Leu
1                5                10                15
Leu Phe Pro Phe Leu Pro Val Ser Leu Pro Ser Phe Leu Pro Phe Phe
                20                25                30
Leu Pro Ser Phe Leu Glu Phe Thr Glu Val Phe Pro Arg *
                35                40                45

```

```

<210> 1244
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1244
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
1                5                10                15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
                20                25                30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
                35                40                45

```

```

<210> 1245
<211> 244
<212> PRT

```

<213> Homo sapiens

<400> 1245

```

Met Ala Gly Val Ile Ala Gly Leu Leu Met Phe Ile Ile Ile Leu Leu
 1           5           10           15
Gly Val Met Leu Thr Ile Lys Arg Arg Asn Ala Tyr Ser Tyr Ser
          20           25           30
Tyr Tyr Leu Lys Leu Ala Lys Lys Gln Lys Glu Thr Gln Ser Gly Ala
          35           40           45
Gln Arg Glu Met Gly Pro Val Ala Ser Ala Asp Lys Pro Thr Thr Lys
          50           55           60
Leu Ser Ala Ser Arg Asn Asp Glu Gly Phe Ser Ser Ser Ser Gln Asp
          65           70           75           80
Val Asn Gly Phe Asn Gly Ser Arg Gly Glu Leu Ser Gln Pro Thr Leu
          85           90           95
Thr Ile Gln Thr His Pro Tyr Arg Thr Cys Asp Pro Val Glu Met Ser
          100          105          110
Tyr Pro Arg Asp Gln Phe Gln Pro Ala Ile Arg Val Ala Asp Leu Leu
          115          120          125
Gln His Ile Thr Gln Met Lys Arg Gly Gln Gly Tyr Gly Phe Lys Glu
          130          135          140
Glu Tyr Glu Ala Leu Pro Glu Gly Gln Thr Ala Ser Trp Asp Thr Ala
          145          150          155          160
Lys Glu Asp Glu Asn Arg Asn Lys Asn Arg Tyr Gly Asn Ile Ile Ser
          165          170          175
Tyr Asp His Ser Arg Val Arg Leu Leu Val Leu Asp Gly Asp Pro His
          180          185          190
Ser Asp Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr His Arg Pro Arg
          195          200          205
His Tyr Ile Ala Thr Gln Gly Pro Met Gln Glu Thr Val Lys Asp Phe
          210          215          220
Trp Arg Met Ile Trp Gln Glu Asn Ser Ala Ser Ile Val Met Val Thr
          225          230          235          240
Asn Pro Gly *
          243

```

<210> 1246

<211> 565

<212> PRT

<213> Homo sapiens

<400> 1246

```

Met Ala Val Phe Arg Ser Gly Leu Leu Val Leu Thr Thr Pro Leu Ala
 1           5           10           15
Ser Leu Ala Pro Arg Leu Ala Ser Ile Leu Thr Ser Ala Ala Arg Leu
          20           25           30
Val Asn His Thr Leu Tyr Val His Leu Gln Pro Gly Met Ser Leu Glu
          35           40           45
Gly Pro Ala Gln Pro Gln Tyr Ser Pro Val Gln Ala Thr Phe Glu Val
          50           55           60
Leu Asp Phe Ile Thr His Leu Tyr Ala Gly Ala Asp Val His Arg His
          65           70           75           80
Leu Asp Val Arg Ile Leu Leu Thr Asn Ile Arg Thr Lys Ser Thr Phe
          85           90           95
Leu Pro Pro Leu Pro Thr Ser Val Gln Asn Leu Ala His Pro Pro Glu

```

711

<210> 1247
 <211> 737
 <212> PRT
 <213> Homo sapiens

<400> 1247

```

Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1          5          10          15
Leu Trp Ala Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
      20          25          30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
      35          40          45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
      50          55          60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
      65          70          75          80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
      85          90          95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
      100          105          110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
      115          120          125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
      130          135          140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Gly Arg Asp
      145          150          155          160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
      165          170          175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
      180          185          190
Pro Gln Tyr Phe Val Gly Val Ser Arg Pro Leu Trp His Thr Val
      195          200          205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
      210          215          220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
      225          230          235          240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
      245          250          255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile
      260          265          270
Ala Thr Glu Ser Thr Leu Phe Ile Arg Gln Asn Gln Leu Val Tyr Tyr
      275          280          285
Phe Thr Gly Thr Tyr Thr Thr Leu Tyr Glu Arg Asn Arg Gly Ser Gly
      290          295          300
Glu Cys Ala Val Ala Gly Pro Thr Pro Gly Glu Gly Thr Leu Val Asn
      305          310          315          320
Pro Ser Thr Glu Gly Ser Trp Ile Arg Val Leu Ala Ser Glu Cys Ile
      325          330          335
Lys Lys Leu Cys Pro Val Tyr Phe His Ser Asn Gly Ser Glu Tyr Ile
      340          345          350
Met Ala Leu Thr Thr Gly Lys His Glu Gly Tyr Val His Phe Gly Thr
      355          360          365
Ile Arg Val Thr Thr Cys Ser Ile Ile Trp Ser Glu Tyr Ile Ala Gly
      370          375          380
Glu Tyr Thr Leu Leu Leu Leu Val Glu Ser Gly Tyr Gly Asn Ala Ser

```

```

385          390          395          400
Lys Arg Phe Gln Val Val Ser Tyr Asn Thr Ala Ser Asp Asp Leu Glu
          405          410          415
Leu Leu Tyr His Ile Pro Glu Phe Ile Pro Glu Ala Arg Gly Leu Glu
          420          425          430
Phe Leu Met Ile Leu Gly Thr Glu Ser Tyr Thr Ser Thr Ala Met Ala
          435          440          445
Pro Lys Gly Ile Phe Cys Asn Pro Tyr Asn Asn Leu Ile Phe Ile Trp
          450          455          460
Gly Asn Phe Leu Leu Gln Ser Ser Asn Lys Glu Asn Phe Ile Tyr Leu
          465          470          475          480
Ala Asp Phe Pro Lys Glu Leu Ser Ile Lys Tyr Met Ala Arg Ser Phe
          485          490          495
Arg Gly Ala Val Ala Ile Val Thr Glu Thr Glu Glu Ile Trp Tyr Leu
          500          505          510
Leu Glu Gly Ser Tyr Arg Val Tyr Gln Leu Phe Pro Ser Lys Gly Trp
          515          520          525
Gln Val His Ile Ser Leu Lys Leu Met Gln Gln Ser Ser Leu Tyr Ala
          530          535          540
Ser Asn Glu Thr Met Leu Thr Leu Phe Tyr Glu Asp Ser Lys Leu Tyr
          545          550          555          560
Gln Leu Val Tyr Leu Met Asn Asn Gln Lys Gly Gln Leu Val Lys Arg
          565          570          575
Leu Val Pro Val Glu Gln Leu Leu Met Tyr Gln Gln His Thr Ser His
          580          585          590
Tyr Asp Leu Glu Arg Lys Gly Gly Tyr Leu Met Leu Ser Phe Ile Asp
          595          600          605
Phe Cys Pro Phe Ser Val Met Arg Leu Arg Ser Leu Pro Ser Pro Gln
          610          615          620
Arg Tyr Thr Arg Gln Glu Arg Tyr Arg Ala Arg Pro Pro Arg Val Leu
          625          630          635          640
Glu Arg Ser Gly Phe Pro Gln Gly Glu Leu Ala Arg His Leu Pro Gly
          645          650          655
Pro Gly Leu Leu Pro Ala Val Ala Ala Leu Arg Val Arg Gln Ala Val
          660          665          670
Arg Gly Pro Gly Ala Arg Pro His Leu Ala Leu Val Gly Glu Gln Gln
          675          680          685
Thr Arg Pro Gly Leu Leu Leu Leu Gly Glu Gln Leu Ala Lys Arg
          690          695          700
Gly Arg Arg Val His Arg Asn Gly Gln Leu Arg Lys Asp Leu Gln Pro
          705          710          715          720
Arg Val Arg Val Arg Ala Ala Gly Ala His Phe Pro Gly Gln Gly His
          725          730          735 736

```

*

<210> 1248

<211> 175

<212> PRT

<213> Homo sapiens

<400> 1248

```

Met Gly Trp Val Trp Thr Leu Cys Thr Ala Ser Ala Cys Leu Thr Leu
  1          5          10          15
Leu Phe Trp Ser Gln Thr Pro Gly Lys Ala Phe Gln Ile Pro Cys Pro
          20          25          30

```


Pro Pro His Leu Ser His Trp Cys Leu Ser Pro Met Gln Met Asp Asp
 35 40 45
 Gly Cys Ala Arg Leu Cys Val Leu Trp Thr Ala Trp Met Arg Trp Arg
 50 55 60
 Val Leu Met Cys Ser Cys Arg Val Trp Ala Thr Asp Leu Gly Ile Phe
 65 70 75 80
 Leu Gly Val Ala Leu Gly Asn Glu Pro Leu Glu Met Trp Pro Leu Thr
 85 90 95
 Gln Asn Glu Glu Cys Thr Val Thr Gly Phe Leu Arg Asp Lys Leu Gln
 100 105 110
 Tyr Arg Ser Arg Leu Gln Tyr Met Lys His Tyr Phe Pro Ile Asn Tyr
 115 120 125
 Lys Ile Arg Val Pro Tyr Glu Gly Val Phe Arg Ile Ala Asn Val Thr
 130 135 140
 Arg Leu Arg Ala Gln Gly Ser Glu Arg Glu Leu Arg Tyr Leu Gly Val
 145 150 155 160
 Leu Val Ser Leu Ser Ala Thr Glu Ser Val His Asp Glu Leu Leu
 165 170 175

<210> 1249

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1249

Met Phe His Arg Cys Arg Leu Lys Ala Gly Leu Met Leu Trp Arg Ser
 1 5 10 15
 Leu Glu Ser Gly Leu Cys Ala Gly Ala His Arg Leu Trp Leu Glu Gly
 20 25 30
 Pro Met Ala Phe Pro Glu Leu Gly Glu Lys Asp Pro Leu Leu Ala Ser
 35 40 45
 Pro Leu Ala Leu Ile Pro Gln Ser Leu Ile Gly Leu Gly Gly Leu Arg
 50 55 60
 Gly Ala Trp *
 65 67

<210> 1250

<211> 209

<212> PRT

<213> Homo sapiens

<400> 1250

Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
 1 5 10 15
 Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
 20 25 30
 Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
 35 40 45
 Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
 50 55 60
 Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
 65 70 75 80
 Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met

```

      85          90          95
Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
      100          105          110
Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
      115          120          125
Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
      130          135          140
Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
      145          150          155          160
Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
      165          170          175
Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
      180          185          190
Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
      195          200          205          208
*
```

```

<210> 1251
<211> 58
<212> PRT
<213> Homo sapiens
```

```

      <400> 1251
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
  1          5          10          15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
      20          25          30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
      35          40          45
Ser Ser Arg Pro Ala Trp Pro Ile Arg *
      50          55          57
```

```

<210> 1252
<211> 84
<212> PRT
<213> Homo sapiens
```

```

      <400> 1252
Met Tyr Lys Asn Phe Cys Leu Phe Phe Ile Phe Ala Leu Tyr Gln Gly
  1          5          10          15
Leu Ala Asn Tyr Gly Leu Trp Ala Asn Ser Asn Pro Leu His Val Ser
      20          25          30
Val Tyr Lys Ile Leu Leu Gly Cys Val Pro Trp Leu Leu Ser Val Val
      35          40          45
Ser Ala Ser Arg Val Ala Gly Thr Thr Gly Thr His His Tyr Ala Trp
      50          55          60
Ile Ile Phe Cys Ile Phe Ser Thr Asp Gly Val Ser Pro Arg Trp Pro
      65          70          75          80
Arg Trp Ser *
      83
```

<210> 1253
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1253
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
 1 5 10 15
 Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
 20 25 30
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
 35 40 45
 Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Glu
 50 55 60
 Gly Ala Gly Val Gly Leu Arg Phe *
 65 70 72

<210> 1254
 <211> 209
 <212> PRT
 <213> Homo sapiens

<400> 1254
 Met Ser Phe Cys Phe Thr Phe Leu Ser Leu Leu Pro Ala Cys Ile Lys
 1 5 10 15
 Leu Ile Leu Gln Pro Ser Ser Lys Gly Phe Lys Phe Thr Leu Val Ser
 20 25 30
 Cys Ala Leu Ser Phe Phe Leu Phe Ser Phe Gln Val His Glu Lys Ser
 35 40 45
 Ile Leu Leu Val Ser Leu Pro Val Cys Leu Val Leu Ser Glu Ile Pro
 50 55 60
 Phe Met Ser Thr Trp Phe Leu Leu Val Ser Thr Phe Ser Met Leu Pro
 65 70 75 80
 Leu Leu Leu Lys Asp Glu Leu Leu Met Pro Ser Val Val Thr Thr Met
 85 90 95
 Ala Phe Phe Ile Ala Cys Val Thr Ser Phe Ser Ile Phe Glu Lys Thr
 100 105 110
 Ser Glu Glu Glu Leu Gln Leu Lys Ser Phe Ser Ile Ser Val Arg Lys
 115 120 125
 Tyr Leu Pro Cys Phe Thr Phe Leu Ser Arg Ile Ile Gln Tyr Leu Phe
 130 135 140
 Leu Ile Ser Val Ile Thr Met Val Leu Leu Thr Leu Met Thr Val Thr
 145 150 155 160
 Leu Asp Pro Pro Gln Lys Leu Pro Asp Leu Phe Ser Val Leu Val Cys
 165 170 175
 Phe Val Ser Cys Leu Asn Phe Leu Phe Phe Leu Val Tyr Phe Asn Ile
 180 185 190
 Ile Ile Met Trp Asp Ser Lys Ser Gly Arg Asn Gln Lys Lys Ile Ser
 195 200 205 208
 *

<210> 1255
 <211> 730
 <212> PRT
 <213> Homo sapiens

<400> 1255
 Met Gly Pro Trp Gly Trp Lys Leu Arg Trp Thr Val Ala Leu Leu Leu
 1 5 10 15
 Ala Ala Ala Gly Thr Ala Val Gly Asp Arg Cys Glu Arg Asn Glu Phe
 20 25 30
 Gln Cys Gln Asp Gly Lys Cys Ile Ser Tyr Lys Trp Val Cys Asp Gly
 35 40 45
 Ser Ala Glu Cys Gln Asp Gly Ser Asp Glu Ser Gln Glu Thr Cys Leu
 50 55 60
 Ser Val Thr Cys Lys Ser Gly Asp Phe Ser Cys Gly Gly Arg Val Asn
 65 70 75 80
 Arg Cys Ile Pro Gln Phe Trp Arg Cys Asp Gly Gln Val Asp Cys Asp
 85 90 95
 Asn Gly Ser Asp Glu Gln Gly Cys Pro Pro Lys Thr Cys Ser Gln Asp
 100 105 110
 Glu Phe Arg Cys His Asp Gly Lys Cys Ile Ser Arg Gln Phe Val Cys
 115 120 125
 Asp Ser Asp Arg Asp Cys Leu Asp Gly Ser Asp Glu Ala Ser Cys Pro
 130 135 140
 Val Leu Thr Cys Gly Pro Ala Ser Phe Gln Cys Asn Ser Ser Thr Cys
 145 150 155 160
 Ile Pro Gln Leu Trp Ala Cys Asp Asn Asp Pro Asp Cys Glu Asp Gly
 165 170 175
 Ser Asp Glu Trp Pro Gln Arg Cys Arg Gly Leu Tyr Val Phe Gln Gly
 180 185 190
 Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser Gly Glu
 195 200 205
 Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys Lys Asp
 210 215 220
 Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro Asp Glu
 225 230 235 240
 Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln Cys Asp
 245 250 255
 Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys Val Asn
 260 265 270
 Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser Gly Glu
 275 280 285
 Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys Arg Asp
 290 295 300
 Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys Leu Asp
 305 310 315 320
 Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile Gly Tyr
 325 330 335
 Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg Arg Cys
 340 345 350
 Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln Leu Cys
 355 360 365
 Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly Phe Gln
 370 375 380
 Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile Ala Tyr
 385 390 395 400
 Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu Asp Arg
 405 410 415

```

Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val Ala Leu
      420      425      430
Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu Ser Gln
      435      440      445
Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val Ser Ser
      450      455      460
Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly Leu Ala
      465      470      475      480
Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val Leu Gly
      485      490      495
Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr Leu Phe
      500      505      510
Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro Val His
      515      520      525
Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile Lys Lys
      530      535      540
Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu Asn Ile
      545      550      555      560
Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg Leu Tyr
      565      570      575
Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val Asn Gly
      580      585      590
Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala His Pro
      595      600      605
Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp Ile Ile
      610      615      620
Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp Val Asn
      625      630      635      640
Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu Phe His
      645      650      655
Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr Thr Leu
      660      665      670
Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln Ile Asn
      675      680      685
Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met Leu Leu
      690      695      700
Ala Arg Gly His Glu Glu Leu Pro His Arg Gly Leu Arg Leu Gln Trp
      705      710      715      720
Pro Pro Arg Arg His Pro Pro Ser Gly *
      725      729

```

<210> 1256

<211> 264

<212> PRT

<213> Homo sapiens

<400> 1256

```

Met Arg Gly Asn Leu Ala Leu Val Gly Val Leu Ile Ser Leu Ala Phe
  1           5           10           15
Leu Ser Leu Leu Pro Ser Gly His Pro Gln Pro Ala Gly Asp Asp Ala
      20      25      30
Cys Ser Val Gln Ile Leu Val Pro Gly Leu Lys Gly Asp Ala Gly Glu
      35      40      45
Lys Gly Asp Lys Gly Ala Pro Gly Arg Pro Gly Arg Val Gly Pro Thr
      50      55      60
Gly Glu Lys Gly Asp Met Gly Asp Lys Gly Gln Lys Gly Ser Val Gly

```

```

65          70          75          80
Arg His Gly Lys Ile Gly Pro Ile Gly Ser Lys Gly Glu Lys Gly Asp
      85          90          95
Ser Gly Asp Ile Gly Pro Pro Gly Pro Asn Gly Glu Pro Gly Leu Pro
      100          105          110
Cys Glu Cys Ser Gln Leu Arg Lys Ala Ile Gly Glu Met Asp Asn Gln
      115          120          125
Val Ser Gln Leu Thr Ser Glu Leu Lys Phe Ile Lys Asn Ala Val Ala
      130          135          140
Gly Val Arg Glu Thr Glu Ser Lys Ile Tyr Leu Leu Val Lys Glu Glu
      145          150          155          160
Lys Arg Tyr Ala Asp Ala Gln Leu Ser Cys Gln Gly Arg Gly Gly Thr
      165          170          175
Leu Ser Met Pro Lys Asp Glu Ala Ala Asn Gly Leu Met Ala Ala Tyr
      180          185          190
Leu Ala Gln Ala Gly Leu Ala Arg Val Phe Ile Gly Ile Asn Asp Leu
      195          200          205
Glu Lys Glu Gly Ala Phe Val Tyr Ser Asp His Ser Pro Met Arg Thr
      210          215          220
Phe Asn Lys Trp Arg Ser Gly Glu Pro Asn Asn Ala Tyr Asp Glu Glu
      225          230          235          240
Asp Cys Val Glu Met Val Ala Ser Gly Gly Trp Asn Asp Val Ala Cys
      245          250          255
His Thr Thr Met Tyr Phe Met *
      260          263

```

<210> 1257

<211> 407

<212> PRT

<213> Homo sapiens

<400> 1257

```

Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu Cys Ala Ala
1          5          10          15
Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln Ser Lys Ser
      20          25          30
Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala His Gly Leu
      35          40          45
Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg Thr Arg Ser
      50          55          60
Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly Ser Ala Cys
      65          70          75          80
Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro Glu Ser Arg
      85          90          95
Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu Lys Ala Gln
      100          105          110
Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln Gln Gln Arg
      115          120          125
His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln Ser Gln Phe
      130          135          140
Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala Lys Pro Ala
      145          150          155          160
Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp Pro Ala His
      165          170          175
Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln Glu Leu Phe
      180          185          190

```

Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln Pro Gln Gly
 195 200 205
 Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp
 210 215 220
 Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro
 225 230 235 240
 Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp
 245 250 255
 Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg
 260 265 270
 Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln
 275 280 285
 Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu
 290 295 300
 Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser
 305 310 315 320
 Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg
 325 330 335
 Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly
 340 345 350
 Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro
 355 360 365
 Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg
 370 375 380
 Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met
 385 390 395 400
 Ala Ala Glu Ala Ala Ser *
 405 406

<210> 1258
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 1258
 Met Met Thr Pro Lys Leu Met Ile Trp Leu Leu Leu Gln Ala Lys Ser
 1 5 10 15
 Ser Ile Ser Met Leu Glu Lys Ser Ser Lys Cys Leu Gly Arg Cys Phe
 20 25 30
 Ser Ser Phe Ala Lys Asn Leu Val Met Ile Gln Ser Cys Val Ser Trp
 35 40 45
 Ala Leu Met Ser Glu Asn Phe Tyr Arg Thr Leu Met Leu Cys Thr Thr
 50 55 60
 Thr Leu Leu Pro Ser Thr Gln Glu Cys Val His Leu Pro Leu Gly Ala
 65 70 75 80
 Leu Met Gln Lys Arg Ala Lys Asp Ser Phe Cys Thr Thr Thr Gln Arg
 85 90 95
 Glu Lys Asp Phe Arg Ile Leu Ser Leu Glu Ser Ser Lys Gln Trp His
 100 105 110
 Asn Lys Ser Met Ala Leu Lys *
 115 119

<210> 1259
 <211> 160

<212> PRT

<213> Homo sapiens

<400> 1259

```

Met Val Cys Leu Arg Leu Pro Gly Gly Ser Cys Met Ala Val Leu Thr
 1           5           10           15
Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala Leu Ala Gly Asp Thr
      20           25           30
Arg Pro Arg Phe Leu Glu Tyr Ser Thr Gly Glu Cys Tyr Phe Phe Asn
      35           40           45
Gly Thr Glu Arg Val Arg Phe Leu Asp Arg Tyr Phe Tyr Asn Gln Glu
 50           55           60
Glu Tyr Val Arg Phe Asp Ser Asp Val Gly Glu Tyr Arg Ala Val Thr
 65           70           75           80
Glu Leu Gly Arg Pro Asp Ala Glu Tyr Leu Glu Gln Pro Glu Gly Arg
      85           90           95
Pro Trp Asn Ser Gln Lys Asp Ile Leu Glu Asp Glu Arg Ala Ala Val
      100           105           110
Asp Thr Tyr Cys Arg His Asn Tyr Gly Val Val Glu Ser Phe Thr Val
      115           120           125
Gln Arg Arg Val His Pro Lys Val Thr Val Tyr Pro Ser Lys Thr Gln
      130           135           140
Pro Leu Gln Ala Pro Gln Pro Ala Val Leu Phe Cys Glu Trp Phe *
145           150           155           159

```

<210> 1260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1260

```

Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser Thr Leu Cys Pro Ser
 1           5           10           15
Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu Pro Leu Arg Ala Thr
      20           25           30
Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys Gln Glu Phe Glu Lys
      35           40           45
Gln Asp Glu Leu Lys Arg Ser Ala Met Arg Ala Val Ala Ala Leu Leu
 50           55           60
Thr Ile Pro Glu Ala Glu Lys Ser Pro Leu Met Ser Glu Phe Gln Ser
 65           70           75           80
Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile Phe Glu Ser Ile Gln
      85           90           95
Lys Asp Ser Ser Thr Asn Leu Glu Ser Met Asp Thr Ser *
      100           105           110

```

<210> 1261

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1261


```

Met Ile Pro Ala Arg Phe Ala Gly Val Leu Leu Ala Leu Ala Leu Ile
 1           5           10           15
Leu Pro Gly Thr Leu Cys Ala Glu Gly Thr Arg Gly Arg Ser Ser Thr
           20           25           30
Ala Arg Cys Ser Leu Phe Gly Ser Asp Phe Val Asn Thr Phe Asp Gly
           35           40           45
Ser Met Tyr Ser Phe Ala Gly Tyr Cys Ser Tyr Leu Leu Ala Gly Gly
           50           55           60
Cys Gln Lys Arg Ser Phe Ser Ile Ile Gly Asp Phe Gln Asn Gly Lys
           65           70           75           80
Arg Val Ser Leu Ser Val Tyr Leu Gly Glu Phe Phe Asp Ile His Leu
           85           90           95
Phe Val Asn Gly Thr Val Thr Gln Gly Asp Gln Arg Val Ser Met Pro
           100           105           110
Tyr Ala Ser Lys Gly Leu Tyr Leu Glu Thr *
           115           120           122

```

<210> 1262

<211> 737

<212> PRT

<213> Homo sapiens

<400> 1262

```

Met Phe Pro Ala Gly Pro Pro Trp Pro Arg Val Arg Val Val Gln Val
 1           5           10           15
Leu Trp Ala Leu Leu Ala Val Leu Leu Ala Ser Trp Arg Leu Trp Ala
           20           25           30
Ile Lys Asp Phe Gln Glu Cys Thr Trp Gln Val Val Leu Asn Glu Phe
           35           40           45
Lys Arg Val Gly Glu Ser Gly Val Ser Asp Ser Phe Phe Glu Gln Glu
           50           55           60
Pro Val Asp Thr Val Ser Ser Leu Phe His Met Leu Val Asp Ser Pro
           65           70           75           80
Ile Asp Pro Ser Glu Lys Tyr Leu Gly Phe Pro Tyr Tyr Leu Lys Ile
           85           90           95
Asn Tyr Ser Cys Glu Glu Lys Pro Ser Glu Asp Leu Val Arg Met Gly
           100           105           110
His Leu Thr Gly Leu Lys Pro Leu Val Leu Val Thr Phe Gln Ser Pro
           115           120           125
Val Asn Phe Tyr Arg Trp Lys Ile Glu Gln Leu Gln Ile Gln Met Glu
           130           135           140
Ala Ala Pro Phe Arg Ser Lys Gly Gly Pro Gly Gly Gly Gly Arg Asp
           145           150           155           160
Arg Asn Leu Ala Gly Met Asn Ile Asn Gly Phe Leu Lys Arg Asp Arg
           165           170           175
Asp Asn Asn Ile Gln Phe Thr Val Gly Glu Glu Leu Phe Asn Leu Met
           180           185           190
Pro Gln Tyr Phe Val Gly Val Ser Ser Arg Pro Leu Trp His Thr Val
           195           200           205
Asp Gln Ser Pro Val Leu Ile Leu Gly Gly Ile Pro Asn Glu Lys Tyr
           210           215           220
Val Leu Met Thr Asp Thr Ser Phe Lys Asp Phe Ser Leu Val Glu Val
           225           230           235           240
Asn Gly Val Gly Gln Met Leu Ser Ile Asp Ser Cys Trp Val Gly Ser
           245           250           255
Phe Tyr Cys Pro His Ser Gly Phe Thr Ala Thr Ile Tyr Asp Thr Ile

```

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*

<210> 1263
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1263
 Met Gly Ala Gly Cys Thr Pro Val Val Leu Gly Ala Ala Leu Trp Leu
 1 5 10 15
 Trp Arg Trp Phe Ser Arg Trp Gly Leu Gly Gly Leu Cys Trp Arg Pro
 20 25 30
 Cys Thr Cys Thr Pro Cys His Ser Ala Ser Pro Gly Ala Gly Arg *
 35 40 45 47

<210> 1264
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1264
 Met Met Tyr Ile Leu Phe Leu Gln Ala Phe Ile Leu Asp Tyr Tyr Gln
 1 5 10 15
 Tyr Phe Leu Gly Leu Asn Cys Val Tyr Ser Tyr Gln Ser Lys Lys Asp
 20 25 30
 Phe Ser Gln Ile Trp Ser Gln Gly Trp Phe Ala Leu Leu Trp Ile Leu
 35 40 45
 Cys Leu Ser Arg Ile Leu Glu Ser Phe Phe Phe Leu *
 50 55 60

<210> 1265
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1265
 Met Val Gly Phe Leu Cys Cys Phe Tyr Leu Phe Gln Leu Leu Gly Pro
 1 5 10 15
 Gly Leu Leu Cys Leu Pro Lys Ala Val Leu Ser Phe Leu Gly Leu Leu
 20 25 30
 Glu Ala Ala His His Leu Leu Val Lys Gly Phe Leu Leu Pro Val Leu
 35 40 45
 Asp Leu Pro Gln Val Ile Val His Gln *
 50 55 57

<210> 1266
 <211> 148

<212> PRT

<213> Homo sapiens

<400> 1266

```

Met Ala Leu Gln Leu Trp Ala Leu Thr Leu Leu Gly Leu Leu Gly Ala
 1          5          10          15
Gly Ala Ser Leu Arg Pro Arg Lys Leu Asp Phe Phe Arg Ser Glu Lys
      20          25          30
Glu Leu Asn His Leu Ala Val Asp Glu Ala Ser Gly Val Val Tyr Leu
      35          40          45
Gly Ala Val Asn Ala Leu Tyr Gln Leu Asp Ala Lys Leu Gln Leu Glu
      50          55          60
Gln Gln Val Ala Thr Gly Pro Val Leu Asp Asn Lys Lys Cys Thr Pro
      65          70          75          80
Pro Ile Glu Ala Ser Gln Cys His Glu Ala Glu Met Thr Asp Asn Val
      85          90          95
Asn Gln Leu Leu Leu Val Asp Pro Pro Arg Lys Arg Leu Val Glu Cys
      100          105          110
Gly Gln Leu Leu Lys Gly Ile Leu Arg Ser Ala Arg Pro Glu Gln His
      115          120          125
Leu Pro Pro Pro Val Leu Arg Gly Arg Gln Arg Gly Glu Val Phe Arg
      130          135          140
Gly Gln Gln *
145      147

```

<210> 1267

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1267

```

Met Arg Trp Leu Trp Pro Leu Ala Val Ser Leu Ala Val Ile Leu Ala
 1          5          10          15
Val Gly Leu Ser Arg Val Ser Gly Gly Ala Pro Leu His Leu Gly Arg
      20          25          30
His Arg Ala Glu Thr Gln Glu Gln Gln Ser Arg Ser Lys Arg Gly Thr
      35          40          45
Glu Asp Glu Glu Ala Lys Gly Val Gln Gln Tyr Val Pro Glu Glu Trp
      50          55          60
Ala Glu Tyr Pro Arg Pro Ile His Pro Ala Gly Leu Gln Pro Thr Lys
      65          70          75          80
Pro Leu Val Ala Thr Ser Pro Asn Pro Asp Lys Asp Gly Gly Thr Pro
      85          90          95
Asp Ser Gly Gln Glu Leu Arg Gly Asn Leu Thr Gly Ala Pro Gly Gln
      100          105          110
Arg Leu Gln Ile Gln Asn Pro Leu Tyr Pro Val Thr Glu Ser Ser Tyr
      115          120          125
Ser Ala Tyr Ala Ile Met Leu Leu Ala Leu Val Glu Phe Ala Ala Gly
      130          135          140
Ile Val Gly Asn Leu Ser Val Met Cys Ile Ala Trp His Ser Tyr Tyr
      145          150          155          160
Leu Lys Ser Ala Trp Asn Ser Ile Leu Ala Ser Leu Ala Leu Trp Asp
      165          170          175
Phe Leu Val Leu Phe Phe Cys Leu Pro Ile Val Ile Leu Asn Glu Ile
      180          185          190

```

Thr Lys Gln Arg Leu Leu Gly Asp Ala Pro Cys Pro Cys Arg Ala Leu
 195 200 205
 His Gly Gly Leu Leu Ser Gly Ser His Asp Phe Gln Pro Leu Cys Pro
 210 215 220
 Gly His *
 225 226

<210> 1268
 <211> 983
 <212> PRT
 <213> Homo sapiens

<400> 1268
 Met Leu Gly Asn Val Leu Leu Leu Cys Phe Phe Val Phe Phe Ile Phe
 1 5 10 15
 Gly Ile Val Gly Val Gln Leu Trp Ala Gly Leu Leu Arg Asn Arg Cys
 20 25 30
 Phe Leu Pro Glu Asn Phe Ser Leu Pro Leu Ser Val Asp Leu Glu Arg
 35 40 45
 Tyr Tyr Gln Thr Glu Asn Glu Asp Glu Ser Pro Phe Ile Cys Ser Gln
 50 55 60
 Pro Arg Glu Asn Gly Met Arg Ser Cys Arg Ser Val Pro Thr Leu Arg
 65 70 75 80
 Gly Asp Gly Gly Gly Gly Pro Pro Cys Gly Leu Asp Tyr Glu Ala Tyr
 85 90 95
 Asn Ser Ser Ser Asn Thr Thr Cys Val Asn Trp Asn Gln Tyr Tyr Thr
 100 105 110
 Asn Cys Ser Ala Gly Glu His Asn Pro Phe Lys Gly Ala Ile Asn Phe
 115 120 125
 Asp Asn Ile Gly Tyr Ala Trp Ile Ala Ile Phe Gln Val Ile Thr Leu
 130 135 140
 Glu Gly Trp Val Asp Ile Met Tyr Phe Val Met Asp Ala His Ser Phe
 145 150 155 160
 Tyr Asn Phe Ile Tyr Phe Ile Leu Leu Ile Ile Val Gly Ser Phe Phe
 165 170 175
 Met Ile Asn Leu Cys Leu Val Val Ile Ala Thr Gln Phe Ser Glu Thr
 180 185 190
 Lys Gln Arg Glu Ser Gln Leu Met Arg Glu Gln Arg Val Arg Phe Leu
 195 200 205
 Ser Asn Ala Ser Thr Leu Ala Ser Phe Ser Glu Pro Gly Ser Cys Tyr
 210 215 220
 Glu Glu Leu Leu Lys Tyr Leu Val Tyr Ile Leu Arg Lys Ala Ala Arg
 225 230 235 240
 Arg Leu Ala Gln Val Ser Arg Ala Ala Gly Val Arg Val Gly Leu Leu
 245 250 255
 Ser Ser Pro Ala Pro Leu Gly Gly Gln Glu Thr Gln Pro Ser Ser Ser
 260 265 270
 Cys Ser Arg Ser His Arg Arg Leu Ser Val His His Leu Val His His
 275 280 285
 His His His His His His Tyr His Leu Gly Asn Gly Thr Leu Arg
 290 295 300
 Ala Pro Arg Ala Ser Pro Glu Ile Gln Asp Arg Asp Ala Asn Gly Ser
 305 310 315 320
 Arg Arg Leu Met Leu Pro Pro Pro Ser Thr Pro Ala Leu Ser Gly Ala
 325 330 335
 Pro Pro Gly Gly Ala Glu Ser Val His Ser Phe Tyr His Ala Asp Cys

[illegible]

Ser Leu Pro Lys Ser Thr Ser Thr Gly Leu Gly Glu Ala Leu Gly Pro
 820 825 830
 Ala Ser Arg Arg Thr Ser Ser Ser Gly Ser Ala Glu Pro Gly Ala Ala
 835 840 845
 His Glu Met Lys Ser Pro Pro Ser Ala Arg Ser Ser Pro His Ser Pro
 850 855 860
 Trp Ser Ala Ala Ser Ser Trp Thr Ser Arg Arg Ser Ser Arg Asn Ser
 865 870 875 880
 Leu Gly Arg Ala Pro Ser Leu Lys Arg Arg Ser Pro Ser Gly Glu Arg
 885 890 895
 Arg Ser Leu Leu Ser Gly Glu Gly Gln Glu Ser Gln Asp Glu Glu Glu
 900 905 910
 Ser Ser Glu Glu Glu Arg Ala Ser Pro Ala Gly Ser Asp His Arg His
 915 920 925
 Arg Gly Ser Leu Glu Arg Glu Ala Lys Ser Ser Phe Asp Leu Pro Asp
 930 935 940
 Thr Leu Gln Val Pro Gly Leu His Arg Thr Ala Ser Gly Arg Gly Ser
 945 950 955 960
 Ala Ser Glu His Gln Gly Leu Gln Trp Gln Val Gly Phe Arg Ala Pro
 965 970 975
 Gly Pro Gly Pro Ala Ala *
 980 982

<210> 1269

<211> 708

<212> PRT

<213> Homo sapiens

<400> 1269

Met Leu Ser Leu Arg Arg Cys Thr Ser Met Arg Leu Cys Leu Ser Ser
 1 5 10 15
 Ser Leu Ala Ser Pro Cys Ser Thr Met Leu Ser Thr Val Val Leu Tyr
 20 25 30
 Lys Val Cys Asn Ser Phe Val Glu Met Gly Ser Ala Asn Val Gln Ala
 35 40 45
 Thr Asp Tyr Leu Lys Gly Val Ala Ser Leu Phe Val Val Ser Leu Gly
 50 55 60
 Gly Ala Ala Val Gly Leu Val Phe Ala Phe Leu Leu Ala Leu Thr Thr
 65 70 75 80
 Arg Phe Thr Lys Arg Val Arg Ile Ile Glu Pro Leu Leu Val Phe Leu
 85 90 95
 Leu Ala Tyr Ala Ala Tyr Leu Thr Ala Glu Met Ala Ser Leu Ser Ala
 100 105 110
 Ile Leu Ala Val Thr Met Cys Gly Leu Gly Cys Lys Lys Tyr Val Glu
 115 120 125
 Ala Asn Ile Ser His Lys Ser Arg Thr Thr Val Lys Tyr Thr Met Lys
 130 135 140
 Thr Leu Ala Ser Cys Ala Glu Thr Val Ile Phe Met Leu Leu Gly Ile
 145 150 155 160
 Ser Thr Val Asp Ser Ser Lys Trp Ala Trp Asp Ser Gly Leu Val Leu
 165 170 175
 Gly Thr Leu Ile Phe Ile Leu Phe Phe Arg Ala Leu Gly Val Val Leu
 180 185 190
 Gln Thr Trp Val Leu Asn Gln Phe Arg Leu Val Pro Leu Asp Lys Ile
 195 200 205
 Asp Gln Val Val Met Ser Tyr Gly Gly Leu Arg Gly Ala Val Ala Phe

210	215	220
Ala Leu Val Ile Leu Leu Asp Arg Thr Lys Val Pro Ala Lys Asp Tyr		
225	230	235
Phe Val Ala Thr Thr Ile Val Val Val Phe Phe Thr Val Ile Val Gln		240
	245	250
Gly Leu Thr Ile Lys Pro Leu Val Lys Trp Leu Lys Val Lys Arg Ser		255
	260	265
Glu His His Lys Pro Thr Leu Asn Gln Glu Leu His Glu His Thr Phe		270
	275	280
Asp His Ile Leu Ala Ala Val Glu Asp Val Val Gly His His Gly Tyr		285
	290	295
His Tyr Trp Arg Asp Arg Trp Glu Gln Phe Asp Lys Lys Tyr Leu Ser		300
305	310	315
Gln Leu Leu Met Arg Arg Ser Ala Tyr Arg Ile Arg Asp Gln Ile Trp		320
	325	330
Asp Val Tyr Tyr Arg Leu Asn Ile Arg Asp Ala Ile Ser Phe Val Asp		335
	340	345
Gln Gly Gly His Val Leu Ser Ser Thr Gly Leu Thr Leu Pro Ser Met		350
	355	360
Pro Ser Arg Asn Ser Val Ala Glu Thr Ser Val Thr Asn Leu Leu Arg		365
	370	375
Glu Ser Gly Ser Gly Ala Cys Leu Asp Leu Gln Val Ile Asp Thr Val		380
385	390	395
Arg Ser Gly Arg Asp Arg Glu Asp Ala Val Met His His Leu Leu Cys		400
	405	410
Gly Gly Leu Tyr Lys Pro Arg Arg Arg Tyr Lys Ala Ser Cys Ser Arg		415
	420	425
His Phe Ile Ser Glu Asp Ala Gln Glu Arg Gln Asp Lys Glu Val Phe		430
	435	440
Gln Gln Asn Met Lys Arg Arg Leu Glu Ser Phe Lys Ser Thr Lys His		445
	450	455
Asn Ile Cys Phe Thr Lys Ser Lys Pro Arg Pro Arg Lys Thr Gly Arg		460
465	470	475
Arg Lys Lys Asp Gly Val Ala Asn Ala Glu Ala Thr Asn Gly Lys His		480
	485	490
Arg Gly Leu Gly Phe Gln Asp Thr Ala Ala Val Ile Leu Thr Val Glu		495
	500	505
Ser Glu Glu Glu Glu Glu Glu Ser Asp Ser Ser Glu Thr Glu Lys Glu		510
	515	520
Asp Asp Glu Gly Ile Ile Phe Val Ala Arg Ala Thr Ser Glu Val Leu		525
	530	535
Gln Glu Gly Lys Val Ser Gly Ser Leu Glu Val Cys Pro Ser Pro Arg		540
545	550	555
Ile Ile Pro Pro Ser Pro Thr Cys Ala Glu Lys Glu Leu Pro Trp Lys		560
	565	570
Ser Gly Gln Gly Asp Leu Ala Val Tyr Val Ser Ser Glu Thr Thr Lys		575
	580	585
Ile Val Pro Val Asp Met Gln Thr Gly Trp Asn Gln Ser Ile Ser Ser		590
	595	600
Leu Glu Ser Leu Ala Ser Pro Pro Cys Asn Gln Ala Pro Ile Leu Thr		605
	610	615
Cys Leu Pro Pro His Pro Arg Gly Thr Glu Glu Pro Gln Val Pro Leu		620
625	630	635
His Leu Pro Ser Asp Pro Arg Ser Ser Phe Ala Phe Pro Pro Ser Leu		640
	645	650
Ala Lys Ala Gly Arg Ser Arg Ser Glu Ser Ser Ala Asp Leu Pro Gln		655
	660	665
Gln Gln Glu Leu Gln Pro Leu Met Gly His Lys Asp His Thr His Leu		670
	675	680
		685

Ser Pro Gly Thr Ala Thr Ser His Trp Cys Ile Gln Phe Asn Arg Gly
 690 695 700
 Ser Arg Leu *
 705 707

<210> 1270
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 1270
 Met Leu Gln Ala Ala Leu Trp Cys Gly Ile Gly Leu Tyr Leu Val Thr
 1 5 10 15
 Leu Arg Leu Gly Val Glu Val Thr Pro Glu Ser Gln His Phe Gly Arg
 20 25 30
 Pro Arg Arg Ala Asp His Leu Arg Pro Gly Gly Arg Gly Gln Ser Gly
 35 40 45
 Gln His Gly Glu Thr Pro Ser Leu Leu Glu Ile Gln Lys Ile Ser Trp
 50 55 60
 Met Trp Trp His Ile Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Ala
 65 70 75 80
 Gly Glu Ser Leu Glu Arg Gly Arg Trp Arg Leu Gln *
 85 90 92

<210> 1271
 <211> 648
 <212> PRT
 <213> Homo sapiens

<400> 1271
 Met Leu Trp Val Thr Gly Pro Val Leu Ala Val Ile Leu Ile Ile Leu
 1 5 10 15
 Ile Val Ile Ala Ile Leu Leu Phe Lys Arg Lys Arg Thr His Ser Pro
 20 25 30
 Ser Ser Lys Asp Glu Gln Ser Ile Gly Leu Lys Asp Ser Leu Leu Ala
 35 40 45
 His Ser Ser Asp Pro Val Glu Met Arg Arg Leu Asn Tyr Gln Thr Pro
 50 55 60
 Gly Met Arg Asp His Pro Pro Ile Pro Ile Thr Asp Leu Ala Asp Asn
 65 70 75 80
 Ile Glu Arg Leu Lys Ala Asn Asp Gly Leu Lys Phe Ser Gln Glu Tyr
 85 90 95
 Glu Ser Ile Asp Pro Gly Gln Gln Phe Thr Trp Glu Asn Ser Asn Leu
 100 105 110
 Glu Val Asn Lys Pro Lys Asn Arg Tyr Ala Asn Val Ile Ala Tyr Asp
 115 120 125
 His Ser Arg Val Ile Leu Thr Ser Ile Asp Gly Val Pro Gly Ser Asp
 130 135 140
 Tyr Ile Asn Ala Asn Tyr Ile Asp Gly Tyr Arg Lys Gln Asn Ala Tyr
 145 150 155 160
 Ile Ala Thr Gln Gly Pro Leu Pro Glu Thr Met Gly Asp Phe Trp Arg
 165 170 175
 Met Val Trp Glu Gln Arg Thr Ala Thr Val Val Met Met Thr Arg Leu

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<210> 1272
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1272
 Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1 5 10 15
 Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
 20 25 30
 Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
 35 40 45
 Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
 50 55 60
 Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
 65 70 75 80
 Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
 85 90 95
 Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro *

<210> 1273
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1273
 Met Phe Phe Val Pro Ile Leu Leu Cys Leu Leu Leu Leu Ile Tyr Asn
 1 5 10 15
 Ile Ile Cys Phe Asn Met Glu His Pro Thr Gly Ala Gly Leu Arg Cys
 20 25 30
 Ser Leu Leu Ala Ala Pro Lys Glu Arg Gln His Arg His His Phe Val
 35 40 45
 Phe His Ile Asp Thr Asn His *

<210> 1274
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 1274
 Met Asp Leu Ser Leu Leu Trp Val Leu Leu Pro Leu Val Thr Met Ala
 1 5 10 15
 Trp Gly Gln Tyr Gly Asp Tyr Gly Tyr Pro Tyr Gln Gln Tyr His Asp
 20 25 30
 Tyr Ser Asp Asp Gly Trp Val Asn Leu Asn Arg Gln Gly Phe Ser Tyr
 35 40 45
 Gln Cys Pro Gln Gly Gln Val Ile Val Ala Val Arg Ser Ile Phe Ser

50		55		60											
Lys	Lys	Glu	Gly	Ser	Asp	Arg	Gln	Trp	Asn	Tyr	Ala	Cys	Met	Pro	Thr
65					70					75					80
Pro	Gln	Ser	Leu	Gly	Glu	Pro	Thr	Glu	Cys	Trp	Trp	Glu	Glu	Ile	Asn
				85						90					95
Arg	Ala	Gly	Met	Glu	Trp	Tyr	Gln	Thr	Cys	Ser	Asn	Asn	Gly	Leu	Val
			100					105					110		
Ala	Gly	Phe	Gln	Ser	Arg	Tyr	Phe	Glu	Ser	Val	Leu	Asp	Arg	Glu	Trp
		115					120					125			
Gln	Phe	Tyr	Cys	Cys	Arg	Tyr	Ser	Lys	Arg	Cys	Pro	Tyr	Ser	Cys	Trp
	130					135					140				
Leu	Thr	Thr	Glu	Tyr	Pro	Gly	His	Tyr	Gly	Glu	Glu	Met	Asp	Met	Ile
145					150					155					160
Ser	Tyr	Asn	Tyr	Asp	Tyr	Tyr	Ile	Arg	Gly	Ala	Thr	Thr	His	Phe	Leu
				165					170					175	
Cys	Ser	Gly	Lys	Gly	Ser	Pro	Ser	Gly	Ser	Ser	*				
		180						185		187					

<210> 1275

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1275

Met	Val	Ala	Leu	Thr	Ile	Gln	Thr	Trp	His	Trp	Leu	Met	Thr	Val	Ala
1				5					10					15	
Glu	Leu	Leu	Ser	Leu	Ala	Cys	Tyr	Ile	Ala	Ser	Leu	Val	Phe	Leu	His
			20					25					30		
Glu	Phe	Ile	Asp	Val	Tyr	Phe	Ile	Ala	Thr	Leu	Ser	Phe	Leu	Trp	Lys
	35					40					45				
Val	Ser	Val	Ile	Thr	Leu	Val	Ser	Cys	Leu	Pro	Leu	Tyr	Val	Leu	Lys
	50					55				60					
Tyr	Leu	Arg	Arg	Arg	Phe	Ser	Pro	Pro	Ser	Tyr	Ser	Lys	Leu	Thr	Ser
65					70					75					80
*															

<210> 1276

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1276

Met	Leu	Asp	Leu	Val	Ala	Leu	Leu	Tyr	Gln	Ala	Val	Leu	Leu	Pro	Ala
1				5					10					15	
Ile	Leu	Leu	Leu	Pro	Leu	Cys	Gln	Leu	Glu	Met	Phe	Leu	Met	Leu	Gln
			20					25					30		
Leu	Asn	Arg	Gln	Ser	Leu	Lys	Lys	Lys	Tyr	Leu	Ile	Leu	*		
		35					40					45			

<210> 1277

<211> 431
 <212> PRT
 <213> Homo sapiens

<400> 1277
 Met Ala Leu Leu Val Pro Leu Ala Leu Leu Val Ile Gln Ala His Leu
 1 5 10 15
 Val Leu Ser Val Gln Leu Glu Arg Val Val Thr Glu Glu Lys Val Ala
 20 25 30
 Leu Leu Ala Leu Leu Val Leu Pro Val Leu Leu Val Pro Glu Val Leu
 35 40 45
 Leu Val Leu Lys Ala His Val Val Thr Lys Val Lys Gln Val Asn Val
 50 55 60
 Glu Leu Leu Ala Ser Lys Asp Ile Glu Asp Ser Leu Val Ile Gln Val
 65 70 75 80
 Pro Gln Val Leu Gln Ala Leu Leu Val Ser Arg Val Gln Ser Ala Val
 85 90 95
 Gln Asp Leu Gln Ala Pro Glu Asp Leu Leu Asp Pro Val Asp Leu Leu
 100 105 110
 Ala Lys Met Glu Pro Val Asp Ile Gln Val Pro Leu Asp His Gln Gly
 115 120 125
 Leu Glu Val Thr Glu Val Lys Glu Asp Leu Arg Ala Pro Gln Ala Thr
 130 135 140
 Gln Gly Asn Gln Ala Leu Leu Asp Leu Leu Val Pro Leu Val Leu Ala
 145 150 155 160
 Val Val Val Leu Glu Pro Leu Pro Leu Leu Gly Leu Glu Val Lys Lys
 165 170 175
 Leu Ala Gly Phe Ala Pro Tyr Tyr Gly Asp Glu Pro Met Asp Phe Lys
 180 185 190
 Ile Asn Thr Asp Glu Ile Met Thr Ser Leu Lys Ser Val Asn Gly Gln
 195 200 205
 Ile Glu Ser Leu Ile Ser Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg
 210 215 220
 Asn Cys Arg Asp Leu Lys Phe Cys His Pro Glu Leu Lys Ser Gly Glu
 225 230 235 240
 Tyr Trp Val Asp Pro Asn Gln Gly Cys Lys Leu Asp Ala Ile Lys Val
 245 250 255
 Phe Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu
 260 265 270
 Asn Val Pro Arg Lys His Trp Trp Thr Asp Ser Ser Ala Glu Lys Lys
 275 280 285
 His Val Trp Phe Gly Glu Ser Met Asp Gly Gly Phe Gln Phe Ser Tyr
 290 295 300
 Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe
 305 310 315 320
 Leu Arg Leu Leu Ser Ser Arg Ala Ser Gln Asn Ile Thr Tyr His Cys
 325 330 335
 Lys Asn Ser Ile Ala Tyr Met Asp Gln Ala Ser Gly Asn Val Lys Lys
 340 345 350
 Ala Leu Lys Leu Met Gly Ser Asn Glu Gly Glu Phe Lys Ala Glu Gly
 355 360 365
 Asn Ser Lys Phe Thr Tyr Thr Val Leu Glu Asp Gly Cys Thr Lys His
 370 375 380
 Thr Gly Glu Trp Ser Lys Thr Val Phe Glu Tyr Arg Thr Arg Lys Ala
 385 390 395 400
 Val Arg Leu Pro Ile Val Asp Ile Ala Pro Tyr Asp Ile Gly Gly Pro
 405 410 415
 Asp Gln Glu Phe Gly Val Asp Val Gly Pro Val Cys Phe Leu *

420

425

430

<210> 1278

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1278

```

Met Leu Leu Tyr Val Phe Lys Phe Leu Gly Leu Phe Gln Phe Phe His
 1             5             10             15
Ser Phe Cys Thr Ala Tyr Gly Pro Pro Gly Gly Cys Gly Asp Ser Gly
      20             25             30
Glu Glu Thr Ser Leu Phe Phe Glu Gln Leu Asp Pro Ala Phe Trp Leu
      35             40             45
Ala Asn Cys Ser *
      50             52

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<210> 1279

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1279

```

Met Leu Gly Ser Ile Cys Asn Val Met Leu Leu Met Leu Ala Ala Ser
 1             5             10             15
Ile Pro Glu Ile Cys Thr Phe Gly Pro Thr Lys Leu Ala Ala Asn Cys
      20             25             30
Asn Trp Met Pro Ser Arg Val Ala Arg Leu Pro Ser Val Arg Asp Thr
      35             40             45
Val Arg Ser Pro Pro Ala Asp Thr Glu Ala Gly Arg Ile Ala Trp Pro
      50             55             60
Thr Ser Pro Gly Cys Ser Arg Phe *
      65             70             72

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<210> 1280

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1280

```

Met Leu Leu Leu Leu Glu Arg Met Ala Leu Cys Pro Val Leu Asp Val
 1             5             10             15
His Thr His Leu Gly Cys Ile Ile Cys Val Phe Asp Val Ala Leu Ser
      20             25             30
Arg Glu Leu Ala Leu Leu Cys Arg Lys Ser Asn Trp Trp Val Ile Asn
      35             40             45
Trp Leu *
      50

```

<210> 1281
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 1281
 Met Lys Ser Gly Ser Gly Gly Gly Ser Pro Thr Ser Leu Trp Gly Leu
 1 5 10 15
 Leu Phe Leu Ser Ala Ala Leu Ser Leu Trp Pro Thr Ser Gly Glu Ile
 20 25 30
 Cys Gly Pro Gly Ile Asp Ile Arg Asn Asp Tyr Gln Gln Leu Lys Arg
 35 40 45
 Leu Glu Asn Cys Thr Val Ile Glu Gly Tyr Leu His Ile Leu Leu Ile
 50 55 60
 Ser Lys Ala Glu Asp Tyr Arg Ser Tyr Arg Phe Pro Lys Leu Thr Val
 65 70 75 80
 Ile Thr Glu Tyr Leu Leu Leu Phe Arg Val Ala Gly Leu Glu Ser Leu
 85 90 95
 Gly Asp Leu Phe Pro Asn Leu Thr Val Ile Arg Gly Trp Lys Leu Phe
 100 105 110
 Tyr Asn Tyr Ala Leu Val Ile Phe Glu Met Thr Asn Leu Lys Asp Ile
 115 120 125
 Gly Leu Tyr Asn Leu Arg Asn Ile Thr Arg Gly Gly His Gln Asp *
 130 135 140 143

<210> 1282
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 1282
 Met Gly Pro Pro Ser Ala Cys Pro His Arg Glu Cys Ile Pro Trp Gln
 1 5 10 15
 Gly Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Ala Pro Thr
 20 25 30
 Thr Ala Trp Leu Phe Ile Ala Ser Ala Pro Phe Glu Val Ala Glu Gly
 35 40 45
 Glu Asn Val His Leu Ser Val Val Tyr Leu Pro Glu Asn Leu Tyr Ser
 50 55 60
 Tyr Gly Trp Tyr Lys Gly Lys Thr Val Glu Pro Asn Gln Leu Ile Ala
 65 70 75 80
 Ala Tyr Val Ile Asp Thr His Val Arg Thr Pro Gly Pro Ala Tyr
 85 90 95
 Ser Gly Arg Glu Thr Ile Ser Pro Ser Gly Asp Leu His Phe Gln Asn
 100 105 110
 Val Thr Leu Glu Asp Thr Gly Tyr Tyr Asn Leu Gln Val Thr Tyr Arg
 115 120 125
 Asn Ser Gln Ile Glu Gln Ala Ser His His Leu Arg Val Tyr Gln Val
 130 135 140
 Ser Gly Leu Thr Pro Pro Ser Lys Pro Ala Ala Pro Gln Ser Pro Arg
 145 150 155 160
 Arg Ala Pro Gly Val Leu Thr Cys His Thr Asn Asn Thr Gly Thr Ser
 165 170 175
 Phe Gln Trp Ile Phe Asn Asn Gln Arg Leu Gln Val Thr Lys Arg Met

```

      180      185      190
Lys Leu Ser Trp Phe Asn His Met Leu Thr Ile Asp Pro Ile Arg Gln
      195      200      205
Glu Asp Ala Gly Glu Tyr Gln Cys Glu Val Ser Asn Pro Val Ser Ser
      210      215      220
Asn Arg Ser Asp Pro Leu Lys Leu Thr Val Lys Ser Asp Asp Asn Thr
      225      230      235      240
Leu Gly Ile Leu Ile Gly Val Leu Val Gly Ser Leu Leu Val Ala Ala
      245      250      255
Leu Val Cys Phe Leu Leu Leu Arg Lys Thr Gly
      260      265      267

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<210> 1283
 <211> 262
 <212> PRT
 <213> Homo sapiens,

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      <400> 1283
Met Leu Val Leu Leu Val Leu Arg Val Ser Leu Ala Ala Leu Val Lys
  1      5      10      15
Met Glu Leu Leu Val Arg Trp Ala Pro Val Ala Cys Leu Val Arg Glu
      20      25      30
Val Ala Leu Glu Pro Leu Ala Leu Leu Val Leu Val Glu Met Met Val
      35      40      45
Leu Leu Val Leu Pro Gly Pro Leu Val Pro Pro Ala Pro Leu Val Leu
      50      55      60
Leu Ala Ser Leu Val Leu Leu Val Leu Arg Val Lys Leu Val Pro Lys
      65      70      75      80
Gly Pro Glu Ala Leu Lys Val Pro Arg Val Cys Val Val Ser Leu Ala
      85      90      95
Pro Leu Ala Leu Leu Val Leu Leu Ala Leu Leu Glu Thr Leu Val Leu
      100      105      110
Arg Glu Ser Leu Val Leu Lys Val Pro Met Val Leu Leu Val Leu Leu
      115      120      125
Val Leu Leu Ala Ser Leu Val Pro Glu Ala Pro Leu Asp Pro Arg Ala
      130      135      140
Pro Ala Ala Leu Leu Val Pro Arg Val Thr Ala Val Asn Leu Val Leu
      145      150      155      160
Leu Ala Ala Lys Glu Thr Leu Val Leu Arg Glu Ser Leu Ala Leu Leu
      165      170      175
Val Phe Lys Asp Pro Leu Ala Leu Leu Glu Arg Lys Glu Ser Glu Glu
      180      185      190
Leu Glu Val Asn Pro Asp Pro Leu Ala Cys Pro Asp Pro Leu Ala Ser
      195      200      205
Val Val Asp Leu Val Ala Val Val Ser Leu Ala Gln Met Val Leu Leu
      210      215      220
Val Pro Arg Val Pro Leu Val Asn Val Val Leu Leu Ala Leu Leu Ala
      225      230      235      240
Pro Lys Asp Leu Leu Val Lys Leu Val Val Pro Val Lys Leu Val Cys
      245      250      255
Leu Val Pro Arg Val *
      260 261

```

<210> 1284

<211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1284
 Met Val Ile Leu Pro Leu Leu Leu Leu Ile Thr Thr Pro Pro Met Thr
 1 5 10 15
 Phe Leu Ala Phe Leu Leu Thr Leu Ile Leu Ser Cys Lys Asn Cys Ser
 20 25 30
 Lys Leu Ala Ala Ser Met Ile Arg Leu Leu Trp Gly Gly Cys Asn Gln
 35 40 45
 Glu *
 49

<210> 1285
 <211> 323
 <212> PRT
 <213> Homo sapiens

<400> 1285
 Met Leu Val Met Ala Pro Arg Thr Val Leu Leu Leu Leu Ser Ala Ala
 1 5 10 15
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe
 20 25 30
 Tyr Thr Ser Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ser
 35 40 45
 Val Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Arg Glu Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly
 65 70 75 80
 Pro Glu Tyr Trp Asp Arg Asn Thr Gln Ile Tyr Lys Ala Gln Ala Gln
 85 90 95
 Thr Asp Arg Glu Ser Leu Arg Asn Leu Arg Gly Tyr Tyr Asn Gln Ser
 100 105 110
 Glu Ala Gly Ser His Thr Leu Gln Ser Met Tyr Gly Cys Asp Val Gly
 115 120 125
 Pro Asp Gly Arg Leu Leu Arg Gly His Asp Gln Tyr Ala Tyr Asp Gly
 130 135 140
 Lys Asp Tyr Ile Ala Leu Asn Glu Asp Leu Arg Ser Trp Thr Ala Ala
 145 150 155 160
 Asp Thr Ala Ala Gln Ile Thr Gln Arg Lys Trp Glu Ala Ala Arg Glu
 165 170 175
 Ala Glu Gln Arg Arg Ala Tyr Leu Glu Gly Glu Cys Val Glu Trp Leu
 180 185 190
 Arg Arg Tyr Leu Glu Asn Gly Lys Asp Lys Leu Glu Arg Ala Asp Pro
 195 200 205
 Pro Lys Thr His Val Thr His His Pro Ile Ser Asp His Glu Ala Thr
 210 215 220
 Leu Arg Cys Trp Ala Leu Gly Phe Tyr Pro Ala Glu Ile Thr Leu Thr
 225 230 235 240
 Trp Gln Arg Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu
 245 250 255
 Thr Arg Pro Ala Gly Asp Arg Thr Phe Gln Lys Val Gly Gln Leu Trp
 260 265 270
 Val Val Pro Ser Gly Glu Glu Gln Arg Tyr Thr Cys His Val Gln His

275 280 285
 Val Gly Ala Ala Glu Ala Pro His Pro Ser Glu Met Gly Ser Gly Leu
 290 295 300
 Pro Ser Ser Thr Val Pro His Arg Trp Ala Leu Val Leu Gly Leu Gly
 305 310 315 320
 Cys Pro *
 322

<210> 1286
 <211> 306
 <212> PRT
 <213> Homo sapiens

<400> 1286
 Met Leu Leu Phe Leu Leu Ser Ala Leu Val Leu Leu Thr Gln Pro Leu
 1 5 10 15
 Gly Tyr Leu Glu Ala Glu Met Lys Thr Tyr Ser His Arg Thr Met Pro
 20 25 30
 Ser Ala Cys Thr Leu Val Met Cys Ser Ser Val Glu Ser Gly Leu Pro
 35 40 45
 Gly Arg Asp Gly Arg Asp Gly Arg Glu Gly Pro Arg Gly Glu Lys Gly
 50 55 60
 Asp Pro Gly Leu Pro Gly Ala Ala Gly Gln Ala Gly Met Pro Gly Gln
 65 70 75 80
 Ala Gly Pro Val Gly Pro Lys Gly Asp Asn Gly Ser Val Gly Glu Pro
 85 90 95
 Gly Pro Lys Gly Asp Thr Gly Pro Ser Gly Pro Pro Gly Pro Pro Gly
 100 105 110
 Val Pro Gly Pro Ala Gly Arg Glu Gly Pro Leu Gly Lys Gln Gly Asn
 115 120 125
 Ile Gly Pro Gln Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Lys
 130 135 140
 Gly Glu Val Gly Ala Pro Gly Met Gln Gly Ser Ala Gly Ala Arg Gly
 145 150 155 160
 Leu Ala Gly Pro Lys Gly Glu Arg Gly Val Pro Gly Glu Arg Gly Val
 165 170 175
 Pro Gly Asn Thr Gly Ala Ala Gly Ser Ala Gly Ala Met Gly Pro Gln
 180 185 190
 Gly Ser Pro Gly Ala Arg Gly Pro Pro Gly Leu Lys Gly Asp Lys Gly
 195 200 205
 Ile Pro Gly Asp Lys Gly Ala Lys Gly Glu Ser Gly Leu Pro Asp Val
 210 215 220
 Ala Ser Leu Arg Gln Gln Val Glu Ala Leu Gln Gly Gln Val Gln His
 225 230 235 240
 Leu Gln Ala Ala Phe Ser Gln Tyr Lys Lys Val Glu Leu Phe Pro Asn
 245 250 255
 Gly Gln Ser Val Gly Glu Lys Ile Phe Lys Thr Ala Gly Phe Val Lys
 260 265 270
 Pro Phe Thr Glu Ala Gln Leu Leu Cys Thr Gln Ala Gly Gly Gln Leu
 275 280 285
 Ala Ser Pro Arg Ser Ala Ala Glu Asn Ala Pro Leu Ala Thr Ala Gly
 290 295 300
 Pro *
 305

<210> 1287
 <211> 299
 <212> PRT
 <213> Homo sapiens

<400> 1287
 Met Gly Arg Trp Ala Leu Asp Val Ala Phe Leu Trp Lys Ala Val Leu
 1 5 10 15
 Thr Leu Gly Leu Val Leu Leu Tyr Tyr Cys Phe Ser Ile Gly Ile Thr
 20 25 30
 Phe Tyr Asn Lys Trp Leu Thr Lys Ser Phe His Phe Pro Leu Phe Met
 35 40 45
 Thr Met Leu His Leu Ala Val Ile Phe Leu Phe Ser Ala Leu Ser Arg
 50 55 60
 Ala Leu Val Gln Cys Ser Ser His Arg Ala Arg Val Val Leu Ser Trp
 65 70 75 80
 Ala Asp Tyr Leu Arg Arg Val Ala Pro Thr Ala Leu Ala Thr Ala Leu
 85 90 95
 Asp Val Gly Leu Ser Asn Trp Ser Phe Leu Tyr Val Thr Val Ser Leu
 100 105 110
 Tyr Thr Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser
 115 120 125
 Leu Ile Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val
 130 135 140
 Leu Leu Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln
 145 150 155 160
 Phe Asn Val Glu Gly Phe Ala Leu Val Leu Gly Ala Ser Phe Ile Gly
 165 170 175
 Gly Ile Arg Trp Thr Leu Thr Gln Met Leu Leu Gln Lys Ala Glu Leu
 180 185 190
 Gly Leu Gln Asn Pro Ile Asp Thr Met Phe His Leu Gln Pro Leu Met
 195 200 205
 Phe Leu Gly Leu Phe Pro Leu Phe Ala Val Phe Glu Gly Leu His Leu
 210 215 220
 Ser Thr Ser Glu Lys Ile Phe Arg Phe Gln Gly His Arg Ala Ala Pro
 225 230 235 240
 Ala Gly Thr Trp Gly Ala Ser Ser Leu Ala Gly Phe Ser Pro Leu Val
 245 250 255
 Trp Ala Ser Leu Ser Ser Ser Trp Ser Pro Glu Pro Pro Ala Ser Leu
 260 265 270
 Ser Pro Leu Pro Ala Phe Leu Arg Lys Ser Ala Leu Cys Cys Trp Gln
 275 280 285
 Leu Ile Cys Trp Ala Ile Arg Ser Ala Ser *
 290 295 298

<210> 1288
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 1288
 Met Glu Ser Ala Leu Pro Ala Ala Gly Phe Leu Tyr Trp Val Gly Ala
 1 5 10 15
 Gly Thr Val Ala Tyr Leu Ala Leu Arg Ile Ser Tyr Ser Leu Phe Thr

```

      20      25      30
Ala Leu Arg Val Trp Gly Val Gly Asn Glu Ala Gly Val Gly Pro Gly
      35      40      45
Leu Gly Glu Trp Ala Val Val Thr Gly Ser Thr Asp Gly Ile Gly Lys
      50      55      60
Ser Tyr Ala Glu Glu Leu Ala Lys His Gly Met Lys Val Val Leu Ile
      65      70      75      80
Ser Arg Ser Lys Asp Lys Leu Asp Gln Val Ser Ser Glu Ile Lys Glu
      85      90      95
Lys Phe Lys Val Glu Thr Arg Thr Ile Ala Val Asp Phe Ala Ser Glu
      100      105      110
Asp Ile Tyr Asp Lys Ile Lys Thr Gly Leu Ala Gly Leu Glu Ile Gly
      115      120      125
Ile Leu Val Asn Asn Val Gly Met Ser Tyr Glu Tyr Pro Glu Tyr Phe
      130      135      140
Leu Asp Val Pro Asp Leu Asp Asn Val Ile Lys Lys Asn Asp Lys Tyr
145      150      155      160
*
```

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<210> 1289
<211> 46
<212> PRT
<213> Homo sapiens
```

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<400> 1289
Met Val Leu Ser Ala Pro Ser Leu Trp Pro Cys Ser Ser Phe Ser Ile
 1      5      10      15
Ser Cys Leu His Val Gly Leu Thr Ala Phe Leu Phe Gln Val Ala Phe
      20      25      30
Leu Cys Leu Leu Cys Cys Val Glu Leu Leu Leu Asp Val *
      35      40      45
```

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<210> 1290
<211> 453
<212> PRT
<213> Homo sapiens
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```

<400> 1290
Met Thr Ser Lys Phe Ile Leu Val Ser Phe Ile Leu Ala Ala Leu Ser
 1      5      10      15
Leu Ser Thr Thr Phe Ser Leu Gln Pro Asp Gln Gln Lys Val Leu Leu
      20      25      30
Val Ser Phe Asp Gly Phe Arg Trp Asp Tyr Leu Tyr Lys Val Pro Thr
      35      40      45
Pro His Phe His Tyr Ile Met Lys Tyr Gly Val His Val Lys Gln Val
      50      55      60
Thr Asn Val Phe Ile Thr Lys Thr Tyr Pro Asn His Tyr Thr Leu Val
      65      70      75      80
Thr Gly Leu Phe Ala Glu Asn His Gly Ile Val Ala Asn Asp Met Phe
      85      90      95
Asp Pro Ile Arg Asn Lys Ser Phe Ser Leu Asp His Met Asn Ile Tyr
      100      105      110
```

```

Asp Ser Lys Phe Trp Glu Glu Ala Thr Pro Ile Trp Ile Thr Asn Gln
    115                      120                      125
Arg Ala Gly His Thr Ser Gly Ala Ala Met Trp Pro Gly Thr Asp Val
    130                      135                      140
Lys Ile His Lys Arg Phe Pro Thr His Tyr Met Pro Tyr Asn Glu Ser
    145                      150                      155                      160
Val Ser Phe Glu Asp Arg Val Ala Lys Ile Ile Glu Trp Phe Thr Ser
    165                      170                      175
Lys Glu Pro Ile Asn Leu Gly Leu Leu Tyr Trp Glu Asp Pro Asp Asp
    180                      185                      190
Met Gly His His Leu Gly Pro Asp Ser Pro Leu Met Gly Pro Val Ile
    195                      200                      205
Ser Asp Ile Asp Lys Lys Leu Gly Tyr Leu Ile Gln Met Leu Lys Lys
    210                      215                      220
Ala Lys Leu Trp Asn Thr Leu Asn Leu Ile Ile Thr Ser Asp His Gly
    225                      230                      235                      240
Met Thr Gln Cys Ser Glu Glu Arg Leu Ile Glu Leu Asp Gln Tyr Leu
    245                      250                      255
Asp Lys Asp His Tyr Thr Leu Ile Asp Gln Ser Pro Val Ala Ala Ile
    260                      265                      270
Leu Pro Lys Glu Gly Lys Phe Asp Glu Val Tyr Glu Ala Leu Thr His
    275                      280                      285
Ala His Pro Asn Leu Thr Val Tyr Lys Lys Glu Asp Val Pro Glu Arg
    290                      295                      300
Trp His Tyr Lys Tyr Asn Ser Arg Ile Gln Pro Ile Ile Ala Val Ala
    305                      310                      315                      320
Asp Glu Gly Trp His Ile Leu Gln Asn Lys Ser Asp Asp Phe Leu Leu
    325                      330                      335
Gly Asn His Gly Tyr His Asn Ala Leu Ala Asp Met His Pro Ile Phe
    340                      345                      350
Leu Ala His Gly Pro Ala Phe Arg Lys Asn Phe Ser Lys Glu Ala Met
    355                      360                      365
Asn Ser Thr Asp Leu Tyr Pro Leu Leu Cys His Leu Leu Asn Ile Thr
    370                      375                      380
Ala Met Pro His Asn Gly Ser Phe Trp Asn Val Gln Asp Leu Leu Asn
    385                      390                      395                      400
Ser Ala Met Pro Arg Val Val Pro Tyr Thr Gln Ser Thr Ile Leu Leu
    405                      410                      415
Pro Gly Ser Val Lys Pro Ala Glu Tyr Asp Gln Glu Gly Ser Tyr Pro
    420                      425                      430
Tyr Phe Ile Gly Val Ser Leu Gly Ser Ile Ile Val Ile Val Phe Phe
    435                      440                      445
Cys Asn Phe His *
    450                      452

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<210> 1291

<211> 78

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(78)

<223> Xaa = any amino acid or nothing

<400> 1291

Met Leu Ser Val Thr Ala Phe Ile Leu Ala Glu Thr Val Leu Ala Ser

```

      1           5           10           15
Gln Glu Val Gln Gly Gly Val Gln Val Arg Val Tyr Leu Met Asn Ala
      20           25           30
Val Pro Asp Gly Leu Gln Gly Gly Ser Pro Val Gly Gly Leu Gly Leu
      35           40           45
Leu Leu Ala Pro Asp Asn Ser Gly His Arg Arg Ser Ser Cys Arg Ile
      50           55           60
Pro Ala Ala Arg Val Tyr Xaa Xaa Xaa Xaa Pro Arg Pro Pro
      65           70           75           78

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<210> 1292

<211> 416

<212> PRT

<213> Homo sapiens

<400> 1292

```

Met Val Leu Trp Ile Leu Trp Arg Pro Phe Gly Phe Ser Gly Arg Phe
      1           5           10           15
Leu Lys Leu Glu Ser His Ser Ile Thr Glu Ser Lys Ser Leu Ile Pro
      20           25           30
Val Ala Trp Thr Ser Leu Thr Gln Met Leu Leu Glu Ala Pro Gly Ile
      35           40           45
Phe Leu Leu Gly Gln Arg Lys Arg Phe Ser Thr Met Pro Glu Thr Glu
      50           55           60
Thr His Glu Arg Glu Thr Glu Leu Phe Ser Pro Pro Ser Asp Val Arg
      65           70           75           80
Gly Met Thr Lys Leu Asp Arg Thr Ala Phe Lys Lys Thr Val Asn Ile
      85           90           95
Pro Val Leu Lys Val Arg Lys Glu Ile Val Ser Lys Leu Met Arg Ser
      100          105          110
Leu Lys Arg Ala Ala Leu Gln Arg Pro Gly Ile Arg Arg Val Ile Glu
      115          120          125
Asp Pro Glu Asp Lys Glu Ser Arg Leu Ile Met Leu Asp Pro Tyr Lys
      130          135          140
Ile Phe Thr His Asp Ser Phe Glu Lys Ala Glu Leu Ser Val Leu Glu
      145          150          155          160
Gln Leu Asn Val Ser Pro Gln Ile Ser Lys Tyr Asn Leu Glu Leu Thr
      165          170          175
Tyr Glu His Phe Lys Ser Glu Glu Ile Leu Arg Ala Val Leu Pro Glu
      180          185          190
Gly Gln Asp Val Thr Ser Gly Phe Ser Arg Ile Gly His Ile Ala His
      195          200          205
Leu Asn Leu Arg Asp His Gln Leu Pro Phe Lys His Leu Ile Gly Gln
      210          215          220
Val Met Ile Asp Lys Asn Pro Gly Ile Thr Ser Ala Val Asn Lys Ile
      225          230          235          240
Asn Asn Ile Asp Asn Met Tyr Arg Asn Phe Gln Met Glu Val Leu Ser
      245          250          255
Gly Glu Gln Asn Met Met Thr Lys Val Arg Glu Asn Asn Tyr Thr Tyr
      260          265          270
Glu Phe Asp Phe Ser Lys Val Tyr Trp Asn Pro Arg Leu Ser Thr Glu
      275          280          285
His Ser Arg Ile Thr Glu Leu Leu Lys Pro Gly Asp Val Leu Phe Asp
      290          295          300
Val Phe Ala Gly Val Gly Pro Phe Ala Ile Pro Val Ala Lys Lys Asn
      305          310          315          320

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Cys Thr Val Phe Ala Asn Asp Leu Asn Pro Glu Ser His Lys Trp Leu
 325 330 335
 Leu Tyr Asn Cys Lys Leu Asn Lys Val Asp Gln Lys Val Lys Val Phe
 340 345 350
 Asn Leu Asp Gly Lys Asp Phe Leu Gln Gly Pro Val Lys Glu Glu Leu
 355 360 365
 Met Gln Leu Leu Gly Leu Ser Lys Glu Arg Lys Pro Ser Val His Val
 370 375 380
 Val Met Asn Leu Pro Ala Lys Ala Ile Glu Phe Leu Ser Ala Phe Lys
 385 390 395 400
 Trp Leu Leu Asp Gly Gln Pro Met Pro Ala Val Ser Ser Phe Pro *
 405 410 415

<210> 1293
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1293
 Met Val Arg Pro Leu Leu Leu Leu Asn Leu His Phe His Leu Pro Ser
 1 5 10 15
 Leu Val Ser Leu Ser Leu Ser Leu Leu Leu Ser Val Ser Leu Ser Leu
 20 25 30
 Val Asn Ala Val Arg Leu Leu Arg Ala Ser Phe Cys Ser Trp Leu Ile
 35 40 45
 Ala Lys Ser Leu Ile Thr Leu Trp Val Arg Pro Ser Gln Ile Gly Lys
 50 55 60
 Leu Lys Ala Leu Ala Ser Ser Thr Thr Ser Met Ala Trp Glu Gly Leu
 65 70 75 80
 Leu Asp Thr Phe Ala Leu Ser Ile Ser Ser Phe Ser Asn Ser Leu Leu
 85 90 95
 Gly Ile Leu Leu Cys Phe Leu Lys Ser Pro Asn Ile Phe Gln Ala Ser
 100 105 110 112
 *

<210> 1294
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1294
 Met Asp Phe Leu Met Leu Ala Val Cys Ala His Arg Leu Cys Phe Leu
 1 5 10 15
 Tyr Leu Phe Ile Leu Tyr Glu Ser Lys Asn Lys Arg Glu Cys Glu Gln
 20 25 30
 Phe Arg Arg Leu Gln Ile Tyr Leu Val Arg Leu Leu Ser Lys Arg Phe
 35 40 45
 Pro Val Val Val Ile Pro Ala Val *
 50 55 56

<210> 1295
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1295
 Met Phe Leu Ser Leu Cys Leu Leu Ser Ala Ala Leu Thr Lys Ile Ser
 1 5 10 15
 Ser Lys Ile Leu Tyr Lys Pro Gly Thr Lys Val Thr Ser Leu Gln Phe
 20 25 30
 Ile Pro Thr Ser Ser Ser Tyr Thr His Met Asn Cys Val Asn Gly Ser
 35 40 45
 Thr Asp Pro Ile Tyr Val Ser Gly Arg Arg Arg Met Cys Ser Ser Cys
 50 55 60
 Val Phe Ile *
 65 67

<210> 1296
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1296
 Met Trp Ser Ala His Pro Leu Ala Val Leu Ser Leu Lys Leu Thr Leu
 1 5 10 15
 Phe Ser Leu Thr Ser Asp Trp Leu Ser Ser Lys Asp Met Ala Ile Ser
 20 25 30
 Leu Ala Phe Lys Ile Ser Gln Ile Leu Cys Ser Val Leu Ser Ala Pro
 35 40 45
 Gly Lys Arg Leu Ile Ser Val Leu Trp Asn Thr Ser Ser Leu Lys Arg
 50 55 60
 Ser *
 65

<210> 1297
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1297
 Met Leu His Ser Gln Leu Leu Ala Val Ser Phe Arg Leu Ile Val Thr
 1 5 10 15
 Leu Pro Leu Ser Ile Gln Asp Trp Asp Ala Glu Asn Met Lys Gly
 20 25 30
 Leu Gln Tyr Ile Phe Asn Thr Leu Trp Ser Val Ser Ser Pro Val Ile
 35 40 45
 Thr Ser Ile Leu Ser Ser Lys His *
 50 55 56

<210> 1298

<211> 235
 <212> PRT
 <213> Homo sapiens

<400> 1298
 Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
 1 5 10 15
 Glu Leu Arg Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
 20 25 30
 Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
 35 40 45
 Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
 50 55 60
 Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
 65 70 75 80
 Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu
 85 90 95
 Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln
 100 105 110
 Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg
 115 120 125
 Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn
 130 135 140
 Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Pro Thr Thr Thr Lys
 145 150 155 160
 Ala Leu Cys Pro Leu Tyr Thr Thr Pro Arg Thr Val Thr Gln Ala Pro
 165 170 175
 Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu
 180 185 190
 Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile
 195 200 205
 Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu
 210 215 220
 Phe Ala Val Thr Leu Arg Ser Phe Val Pro *
 225 230 234

<210> 1299
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1299
 Met Arg Trp Lys Val Gln Val Asn Ser Leu Met Val Leu Pro Ser Leu
 1 5 10 15
 Thr Val Cys Tyr Ser Thr His Leu Ser Thr Gly Cys Arg His Ile Lys
 20 25 30
 Val Asn Val Gln Val Val Leu Glu Asn Ile Gln Arg Ile Leu Asn Val Gln
 35 40 45
 Asn Ser Glu Lys Gln Ile Tyr Ala Glu Cys Val Val Gly Ala Phe *
 50 55 60 63

<210> 1300
 <211> 80

<212> PRT

<213> Homo sapiens

<400> 1300

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Met Ala Ser Arg Ser Asn Tyr Leu Thr Glu Thr Leu Thr Pro Phe Pro
 1           5           10           15
Ala Leu Leu Ser Leu Phe Met Leu Tyr Leu Ser His Thr Gly Phe Asp
      20           25           30
Asn Ile Ile Pro Thr Phe Pro Thr Lys Pro Ala Tyr Thr Leu His Arg
      35           40           45
Leu Leu Pro His Cys Pro Asp Ile His Ile Ala Tyr Ser Leu Ile Ser
      50           55           60
Ser His Leu Phe Ala Gln Gly Ala Ser Leu Ser Thr Arg Thr His *
      65           70           75           79

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<210> 1301

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1301

```

Met Arg Phe Arg Ala Glu Pro Lys Ser Arg Pro Leu Pro Ala Leu Cys
 1           5           10           15
His Val Leu Ile Ala Cys Ile Val Phe Arg Trp Ala Phe Ala Gln Pro
      20           25           30
Leu Pro Ser Ser Arg Ser Tyr Arg Ser Ser Gly Glu Phe Pro Arg Ser
      35           40           45
Pro Ser Phe Lys Lys Thr Lys Thr Pro Ser Trp Gly Glu Arg Arg Val
      50           55           60
Leu Leu Tyr Ser Arg Met Leu Arg Ala Asn Leu Arg Met Trp Arg Glu
      65           70           75           80
Tyr Trp Ser Gln Lys Ser Ile
      85           87

```

<210> 1302

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1302

```

Met Asp His Cys Gly Ala Leu Phe Leu Cys Leu Cys Leu Leu Thr Leu
 1           5           10           15
Gln Asn Ala Thr Thr Glu Thr Trp Glu Glu Leu Leu Ser Tyr Met Glu
      20           25           30
Asn Met Gln Val Ser Arg Gly Arg Ser Ser Val Phe Ser Ser Arg Gln
      35           40           45
Leu His Gln Leu Glu Gln Met Leu Leu Asn Thr Ser Phe Pro Gly Tyr
      50           55           60
Asn Leu Thr Leu Gln Thr Pro Thr Ile Gln Ser Leu Ala Phe Lys Leu
      65           70           75           80
Ser Cys Asp Phe Ser Gly Leu Ser Leu Thr Ser Ala Thr Leu Lys Arg
      85           90           95

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Val Pro Gln Ala Gly Gly Gln His Ala Arg Gly Gln His Ala Met Gln
 100 105 110
 Phe Pro Ala Glu Leu Thr Arg Asp Ala Cys Lys Thr Arg Pro Arg Glu
 115 120 125
 Leu Arg Leu Ile Cys Ile Tyr Phe Ser Asn Thr His Phe Phe Lys
 130 135 140 143

<210> 1303
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 1303
 Met Ile Leu Leu Met Ser Ala Ala Ile Phe Cys Ser Ala Glu Val Phe
 1 5 10 15
 Thr Arg Gly Ser Phe Phe Ser Asp Met Leu Thr Leu Asp Arg Val Lys
 20 25 30
 Ala Lys Gly Leu Gln Gly Glu Gly Ala Ala Ser Thr Cys Ala Leu Ala
 35 40 45
 Ala Asp Ser Gln Gly Ser Gly Ala Ser Gly Thr Lys
 50 55 60

<210> 1304
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1304
 Met Lys Met Met Phe Ile Ile Thr Asn Trp Leu Asn Tyr Tyr Phe Leu
 1 5 10 15
 Leu Phe Ser Pro Ser Asn Pro Gln Ile Gln Ser Ile Leu His Glu Val
 20 25 30
 Ala Pro Leu Trp Phe Arg Thr Leu Tyr Thr Leu Leu Arg Gly Cys Ser
 35 40 45
 Thr Trp Lys Gly Leu Ser Ser *
 50 55

<210> 1305
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 1305
 Met Asn Ile Ile Phe Ile Tyr Leu Ala Thr Ser Leu Ala Phe Leu Ile
 1 5 10 15
 Ile Asn Leu Ser Gln Leu Leu Phe Thr Glu Tyr Leu His Phe Arg Cys
 20 25 30
 Cys Ser Lys Cys Ser Thr Cys Ile Asn Leu Leu Ser His His Glu Trp
 35 40 45
 Glu Leu Leu Pro Ser Ser Tyr Arg Arg Gly Ser Arg Ser Pro *

50

55

60

62

<210> 1306

<211> 138

<212> PRT

<213> Homo sapiens

<400> 1306

```

Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1          5          10          15
Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
      20          25          30
Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Pro
      35          40          45
Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
      50          55          60
Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
      65          70          75          80
Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Pro Asp Phe
      85          90          95
Tyr Pro Pro Ala Tyr Glu Glu Ser Leu Glu Val Glu Lys Gln Ser Cys
      100          105          110
Pro Ala Glu Arg Glu Ala Pro Arg His Ser Ser Thr Ser Ile Tyr Arg
      115          120          125
Asp Gly Pro Gly Ile Pro Gly Trp Lys *
      130          135          137

```

<210> 1307

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1307

```

Met Met Ala Ile Lys Pro Thr Ile Leu Val Thr Gln Gly Leu Ile Leu
 1          5          10          15
Cys Trp Lys Cys His Lys Met Ile Cys Ser Tyr Phe Asn Leu Gln Leu
      20          25          30
Glu Arg His Phe Leu Glu Thr Ile Gln Ser Asp Ser Phe Met Glu Lys
      35          40          45
Leu Thr Leu Thr Asp Leu Thr Ile Tyr Arg Ile His Val Ala Thr His
      50          55          60          64

```

<210> 1308

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1308

Met Pro Cys Ser Gly Ser Ser Val Gln Thr Phe Arg Pro Leu Leu Ile
 1 5 10 15
 Phe His Asn Val Thr Phe Phe Ile Leu Pro Val Lys Cys Phe Asn Ala
 20 25 30
 Leu Ile Asn Val Leu Glu Arg Pro Phe Trp Gln Leu Leu Gly Glu Ile
 35 40 45
 Gly Glu Glu Tyr Arg Gly Ser Glu Asp Trp Leu Gly Gly Ser Phe Arg
 50 55 60 64
 *

<210> 1309

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1309

Met Arg Ile Trp His Arg Trp Leu Leu Val Arg Ile Leu Phe Pro Ala
 1 5 10 15
 Pro Gly Leu Gln Thr Ala Thr Phe Ser Val Cys Phe His Val Ala Glu
 20 25 30
 Ser Glu Leu Trp His Leu Leu Cys Phe Phe Phe Phe Leu Ala Leu Leu
 35 40 45
 Pro Pro Arg Trp Lys Ala Arg Gly Pro Ile Trp Val His Gly Thr Leu
 50 55 60
 Gly Phe Arg Val Gly Arg Asn Phe Leu Ala *
 65 70 74

<210> 1310

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1310

Met Lys Leu Gly Asp Val Phe Val Lys Leu Leu Val Ser Leu Ala Gly
 1 5 10 15
 Glu Ile Leu Leu Ala Pro Leu Val Ser Ala Ser Gly Met Gly Pro Ala
 20 25 30
 Gly Val Glu Ala Leu Glu Glu Val Ser Ala Leu Ser Val *
 35 40 45

<210> 1311

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1311

Met Tyr Trp Val Thr Val Ile Thr Leu Ile Tyr Gly Tyr Tyr Ala Trp
 1 5 10 15
 Val Gly Phe Trp Pro Glu Ser Ile Pro Tyr Gln Asn Leu Gly Pro Leu

```

      20      25      30
Gly Pro Leu Thr Gln Tyr Leu Met Asp His His His Thr Leu Leu Cys
      35      40      45
Asn Gly Tyr Trp Leu Ala Trp Leu Ile His Val Gly Glu Ser Leu His
      50      55      60
Ala Ile Leu Leu Gly Glu Arg Lys Gly Ile Thr Ser Gly Arg Ser Gln
      65      70      75      80
Leu Leu Trp Leu Leu Gln Thr Leu Phe Phe Gly Ile Thr Thr Leu Thr
      85      90      95
Ile Phe Asp Ala Tyr Lys Arg Lys Arg
      100      105

```

<210> 1312
 <211> 114
 <212> PRT
 <213> Homo sapiens

```

      <400> 1312
Met Lys Gly Lys Trp Cys Cys Ser Leu Leu Cys Gln Ser Pro Gln Val
  1      5      10      15
Gln Thr Ala Leu Val Cys Pro Leu Ser Leu Ser Leu Gly Pro Pro Gly
      20      25      30
Pro Gln Cys Pro Leu Leu Trp Leu Gly Gln Glu Asp Leu Pro Asp Ile
      35      40      45
Ala Arg Cys Ile Thr Asp Asp Cys Ser Gln Leu Pro Gln Ala Pro Ala
      50      55      60
Ser Leu Ala Ser Cys Phe Phe Pro Gln Ser Cys Leu Leu Ile Ser Ile
      65      70      75      80
His Leu Ser Met Gly Tyr Ser Trp Thr Leu Gly Leu Gly Val Gly Ile
      85      90      95
Arg Leu Leu Pro Thr Lys Gly Val Lys Val Thr His Phe Pro Tyr His
      100      105      110
Ala *
113

```

<210> 1313
 <211> 88
 <212> PRT
 <213> Homo sapiens

```

      <400> 1313
Met Ser Ser Ser Gly Gln Leu Gly His Pro Pro Arg Ala Pro His Ser
  1      5      10      15
Trp Arg Arg Trp Cys Trp Trp Leu Phe Met Leu Ala Thr Ser Leu Ser
      20      25      30
Arg Arg Arg Arg Pro Ser Thr Pro Leu Ile His Tyr Arg Val Phe Thr
      35      40      45
Val Asn His Lys Met Asp Pro Val Thr Arg Thr Phe Thr Leu Asp Ile
      50      55      60
Lys Val Val Phe Pro Asp Glu Gly Trp Gly Val Val Val Asp Pro Gly
      65      70      75      80
His Trp Gly Tyr Met Val Cys *
      85      87

```

<210> 1314
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1314
 Met Gly Gly Arg Leu Trp Ile Phe Leu Gln Leu Cys Gln Ser Leu Gly
 1 5 10 15
 Leu Ser Thr Val Val Ser Ser Arg Pro Val Ala Cys Leu Glu Ser Val
 20 25 30
 Pro Gly Met Cys Met Ser Val Cys Met Pro Leu Asn Tyr Arg Gly Ser
 35 40 45
 Asn Phe Ser Glu Thr Asp Val Trp Met Asp Leu Ser Arg Ala His Leu
 50 55 60 64
 *

<210> 1315
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1315
 Met Leu Ile Pro Ile Pro Val His Ile Phe Pro Leu Ser Ser Leu Leu
 1 5 10 15
 Gly Asp Gly Thr Met Arg Leu Leu Pro Asp Ile Ser Ser Asp Trp Leu
 20 25 30
 Cys Leu Asn Gln Glu Phe Ala Pro Val Gln Ser Ala Ile Ala Met Glu
 35 40 45
 Trp Gly Ser Cys Val Gly Asp Gln Asp Asp Thr His Trp Ile Cys Leu
 50 55 60
 Arg Gln Thr Ser Gly Val *
 65 70

<210> 1316
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1316
 Met Ala Thr Pro Ser Ser Pro Trp Trp Ala His Ser Gly Leu Pro Pro
 1 5 10 15
 Leu Phe Ser Ser Gly Leu Ser Trp Arg Leu Val Pro Leu Phe Trp Cys
 20 25 30
 Leu Gln Ser Leu Thr Gly Phe Leu Gly Pro Cys Leu Pro Arg Thr Thr
 35 40 45
 Arg Ala Phe Leu Ser Leu Gln Ser Trp Asp Leu Pro Gly Thr Arg Pro
 50 55 60
 Gly Ser Gln Ala Gln Gly Phe Thr Ala Cys Asn Ala Ala Asn Thr Pro

```

65          70          75          80
Gly Leu Ala Ala Leu Pro Gly Ser Gly Ala Phe Ser Val Ile Pro Val
          85          90          95
Ser Leu Leu Leu Pro Val Pro Glu Gly Leu Gly Arg Thr Tyr Leu Tyr
          100          105          110
Ser *
113

```

```

<210> 1317
<211> 91
<212> PRT
<213> Homo sapiens

```

```

<400> 1317
Met Met Val Trp Asn Leu Phe Pro Cys Phe Pro Pro Leu Leu Leu Leu
 1          5          10          15
Gln Phe Ile Asp Cys Gln Gln Ser Ser Glu Ile Glu Gln Gly Phe Thr
          20          25          30
Arg Ser Leu Leu Gly His Pro Ile Phe Phe Cys Pro Asp Pro Cys Trp
          35          40          45
Gln Ser Cys Met Asn Cys Val Ile Leu Leu Ser Ala Phe Phe Phe Leu
          50          55          60
Phe Asp Lys Met Asp Ile Lys Asn Ser Cys Cys Ala Lys Val Ser Ser
65          70          75          80
Leu Leu Gln Glu Glu Asn Gln Phe Phe Phe *
          85          90

```

```

<210> 1318
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1318
Met Leu Pro Leu Ile Ser Ser Ile Lys Ile Leu Lys Leu Leu Tyr Tyr
 1          5          10          15
Phe Ser Val Trp Gly Trp Gly Phe Phe Phe Glu Thr Glu Phe Arg
          20          25          30
Ser Cys Cys Pro Gly Trp Ser Ala Met Val Arg Ser Gln Leu Thr Ala
          35          40          45
Thr Ser Thr Ser Arg Val Gln Ala Ile Leu Leu Pro Gln Pro Pro Glu
50          55          60          64
*
```

```

<210> 1319
<211> 46
<212> PRT
<213> Homo sapiens

```

```

<400> 1319

```



```

Met Val Thr Leu Leu Ile Ala Lys Gln Phe Trp Ile Phe Thr Val Asp
 1           5           10           15
Leu His Leu Ser Asp Tyr Val Leu Glu Leu Ser Arg Tyr Leu Ile Asn
           20           25           30
Ala Cys Phe Tyr Ser Pro Cys Ser Gln Pro Ile Glu Lys *
           35           40           45

```

```

<210> 1320
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1320
Met Pro Ala Leu Leu Val Leu Lys Val Val Lys Val Leu Leu Pro Met
 1           5           10           15
Val Leu Thr Gly Leu Gly Val Glu Glu Leu Lys Glu Met Val Leu Leu
           20           25           30
Leu Pro Val Pro Cys Ala Ala Ile Ile Gly Ser Phe Lys Leu *
           35           40           45 46

```

```

<210> 1321
<211> 55
<212> PRT
<213> Homo sapiens

```

```

<400> 1321
Met Ile Cys Phe Cys Leu Pro Val Cys Pro Lys Thr His Leu Ala His
 1           5           10           15
Pro Met Leu Ala Thr Leu Ala Phe Val Ser Leu Leu Glu Tyr Ala Lys
           20           25           30
His Cys Leu Arg Asp Phe Ile Leu Val Ser Phe Leu Leu Gly Met Leu
           35           40           45
Phe Leu Arg Tyr Gln His *
           50           54

```

```

<210> 1322
<211> 301
<212> PRT
<213> Homo sapiens

```

```

<400> 1322
Met Lys Ile Ala Phe Gly Asn Leu Trp Met Glu Ile Leu Tyr Leu Lys
 1           5           10           15
Pro Pro Trp Thr Leu Leu His Leu Leu Gln Cys Phe Lys Lys His Trp
           20           25           30
Leu Ala Val Phe Gly Leu Val Met Glu Lys Asn Leu Leu Leu Thr Ile
           35           40           45
Glu Ser Leu Tyr Lys Asn Leu Arg Lys Ala Asn Lys Ala Val Asp-Phe
           50           55           60
Thr Thr Val Lys Phe Leu Leu Gln Asp Ser Arg Ser Leu Leu His Ala

```

```

65          70          75          80
Phe Ser Thr Arg Ser Asn Tyr Asp Gly Ile Leu Pro Gln Thr Phe Ala
85          90          95
Gln Val Asn Asn Leu Leu Gln Thr Phe Ala Glu Val Lys Thr Lys Leu
100         105         110
Lys Pro Asn Ser Ser Glu Asn Thr Val Thr Lys Lys Gln Glu Gly Thr
115         120         125
Ser Leu Lys Asn Ser His Asn Gln Glu Ile Thr Val Phe Ser Ser Ser
130         135         140
His Leu Pro Gln Pro Ser Arg His Gln Glu Ile Trp Ser Ile Leu Glu
145         150         155         160
Ser Val Trp Ile Thr Ile Tyr Gln Asn Ser Thr Asp Val Phe Gln Arg
165         170         175
Leu Gly Ser Asn Ser Ala Leu Thr Thr Ser Asn Ile Ala Ser Phe Glu
180         185         190
Glu Ala Phe Ile Cys Leu Gln Lys Leu Met Ala Ala Val Arg Asp Ile
195         200         205
Leu Glu Gly Ile Gln Arg Ile Leu Ala Pro Asn Ser Asn Tyr Gln Asp
210         215         220
Val Glu Thr Leu Tyr Asn Phe Leu Ile Lys Tyr Glu Val Asn Lys Asn
225         230         235         240
Val Lys Phe Thr Ala Gln Glu Ile Tyr Asp Cys Val Ser Gln Thr Glu
245         250         255
Tyr Arg Glu Lys Leu Thr Ile Gly Cys Arg Gln Leu Val Glu Met Glu
260         265         270
Tyr Thr Met Gln Gln Cys Asn Ala Ser Val Tyr Met Glu Ala Lys Asn
275         280         285
Arg Gly Trp Cys Glu Asp Met Leu Asn Tyr Arg Ile *
290         295         300

```

```

<210> 1323
<211> 85
<212> PRT
<213> Homo sapiens

```

```

<400> 1323
Met Thr Glu His Leu Ala Gln Gln Ser Glu Phe Ala Ala Thr Leu Leu
1          5          10          15
Leu Leu Trp Ala Pro Leu Lys Thr Gly Arg Leu Thr Asn Ser Phe Val
20         25         30
Asn Gly Pro Gly Gln His Gly Lys Met Cys Cys Ile Leu Pro Pro Lys
35         40         45
Thr Pro Val Ser Thr Lys Asn Ala Lys Ile Gly Arg Ala Trp Trp Cys
50         55         60
Thr Ser Val Ile Pro Ala Thr Trp Glu Ala Asp Thr Gly Glu Ser Leu
65         70         75         80
Glu Pro Gly Arg *
84

```

```

<210> 1324
<211> 46
<212> PRT
<213> Homo sapiens

```

<400> 1324

```

Met Leu His His Ser Gln Leu Ile Phe Val Phe Leu Val Gln Thr Gly
 1             5             10             15
Phe His His Val Ala Leu Ser Gly Phe Lys Leu Leu Ala Ser Ser Asn
             20             25             30
Leu Pro Thr Leu Asp Pro Lys Val Leu Gly Leu Gln Val *
          35             40             45

```

<210> 1325

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1325

```

Met Gly Leu Ser Lys Ala Phe Leu Ile Thr Arg Thr Val Phe Leu Ile
 1             5             10             15
Ser Ser Leu Ser Phe Tyr Ser Phe Leu Gly Phe Pro Ser Leu Cys Phe
             20             25             30
Thr Gly Ser Cys Met Leu Ser Thr Leu Phe Ile Arg Ala Leu Ser Ile
             35             40             45
Leu Val Ile Ile Val Leu Asn Ser Arg Ser Asp Lys Ser Asn Thr Pro
             50             55             60
Ala Ile Ser Glu Ser Gly Ser Asp Ala Cys Ser Phe Ser Ser Asn Phe
             65             70             75             80
Val Phe Cys Leu Leu Val *
              85 86

```

<210> 1326

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1326

```

Met Ser Leu Phe Leu Phe Phe Leu Met Phe Gln Val Leu Ser Glu Val
 1             5             10             15
Ser Trp Gly Gly Val Gly Ser Val Ser Asn Gln Gly Leu Glu His His
             20             25             30
Glu Ile Val Thr Pro Asp Leu Gln Ser Leu Ala Gly Gly Trp Thr Gly
             35             40             45
Gly Arg Glu Arg Gly Phe Leu Phe Thr Phe Asn Ile Phe Leu Gln Lys
             50             55             60
Lys Gln Thr Ile *
             65             68

```

<210> 1327

<211> 103

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(103)

<223> Xaa = any amino acid or nothing

<400> 1327

```

Met Val Gly Phe Gly Thr Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1          5          10          15
Val Leu Val Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
          20          25          30
Trp Ser Ile Ser Ser Arg His Val Leu Leu Glu Glu Glu Val Ala Glu
          35          40          45
Leu Gln Gly Arg Val Gln Arg Ala Glu Val Ala Leu Trp Arg Val Gly
          50          55          60
Gly Arg Asn Cys Asp Leu Leu Val Val Gly Thr Arg Ser Arg Arg
65          70          75          80
Ile Glu Glu Arg Gly Ala Asp Tyr Ser Arg Leu Ser Arg Arg Leu Gln
          85          90          95
Xaa Lys Glu Gly Leu Val Asn
          100          103

```

<210> 1328

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1328

```

Met Arg Ala Arg Pro Ala Cys Thr Ala Thr Phe Pro Ser Phe His Leu
 1          5          10          15
Ala Leu Asp Ser Ser Tyr Leu Pro Cys Cys Lys Gly Lys Ala Thr Phe
          20          25          30
Ile Pro Lys Ser Arg Ile Tyr Leu Gln Glu Ala Lys Gly Ser Gly Glu
          35          40          45
Pro Leu Gly *
          50 51

```

<210> 1329

<211> 204

<212> PRT

<213> Homo sapiens

<400> 1329

```

Met Cys Thr Arg Asn Leu Ala Leu Leu Phe Ala Pro Ser Val Phe Gln
 1          5          10          15
Thr Asp Gly Arg Gly Glu His Glu Val Arg Val Leu Gln Glu Leu Ile
          20          25          30
Asp Gly Tyr Ile Ser Val Phe Asp Ile Asp Ser Asp Gln Val Ala Gln
          35          40          45
Ile Asp Leu Glu Val Ser Leu Ile Thr Thr Trp Lys Asp Val Gln Leu
          50          55          60
Ser Gln Ala Gly Asp Leu Ile Met Glu Val Tyr Ile Glu Gln Gln Leu
65          70          75          80
Pro Asp Asn Cys Val Thr Leu Lys Val Ser Pro Thr Leu Thr Ala Glu
          85          90          95

```

Glu Leu Thr Asn Gln Val Leu Glu Met Arg Gly Thr Ala Ala Gly Met
 100 105 110
 Asp Leu Trp Val Thr Phe Glu Ile Arg Glu His Gly Glu Leu Glu Arg
 115 120 125
 Pro Leu His Pro Lys Glu Lys Val Leu Glu Gln Ala Leu Gln Trp Cys
 130 135 140
 Gln Leu Pro Glu Pro Cys Ser Ala Ser Leu Leu Leu Lys Lys Val Pro
 145 150 155 160
 Leu Ala Gln Ala Gly Cys Leu Phe Thr Gly Ile Arg Arg Glu Ser Pro
 165 170 175
 Arg Val Gly Leu Phe Ala Val Phe Val Arg Ser His Leu Ala Cys Trp
 180 185 190
 Gly Ser Arg Phe Gln Glu Arg Phe Phe Leu Val Ala
 195 200 204

<210> 1330
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 1330
 Met Pro Val Pro Ala Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1 5 10 15
 Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His
 20 25 30
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
 35 40 45
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
 50 55 60
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
 65 70 75 80
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
 85 90 95
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
 100 105 110
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
 115 120 125
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
 130 135 140
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser
 145 150 155 160
 His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu
 165 170 175
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg Leu His
 180 185 190
 Thr Ala Ala Leu Pro Ala *
 195 198

<210> 1331
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1331
 Met Ala Arg Pro Ser Ala Phe Pro Ile Gly Val Cys Leu Thr Leu Pro
 1 5 10 15
 Met Ala Trp Ile Ser Pro Gly Leu Ala Val Pro Ser Cys Pro Gln Tyr
 20 25 30
 Ile Leu Gln Ala Gln Gly Cys Ile Leu Asp Met Lys Thr Arg Gly Ser
 35 40 45
 His Gly Glu Ser Ala Val Pro Gly Ala His Gly Ser Arg Pro Phe His
 50 55 60
 Pro Leu Ala Glu Pro Asn Pro Pro Arg Gln Lys Leu Thr Pro Cys Thr
 65 70 75 80
 *

<210> 1332
 <211> 73
 <212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(73)
 <223> Xaa = any amino acid or nothing

<400> 1332
 Met Thr Ile Ile Leu Gln Ile Glu Thr Val Ile Phe Leu Leu Tyr Leu
 1 5 10 15
 Ala Pro Asp Thr Val Arg Pro Leu Thr Ile Ile Thr Gly Met Ala Gly
 20 25 30
 Ile Val Lys Gln Gln Ile Asp Ser His Ile Thr Asp Pro Asp Gln Gln
 35 40 45
 Asn Asn Gly Leu Ser Leu Ser Gly Pro Pro Pro Ala Pro Asp Pro Leu
 50 55 60
 Asp Xaa Leu Val Pro Thr Leu Trp Gly
 65 70 73

<210> 1333
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1333
 Met Leu Val Tyr Ile Leu Trp Asn Met Tyr Phe Asn Val Cys Ile Val
 1 5 10 15
 Pro Gly Val Ile Lys Ser Lys Thr Gly Thr Gln Asp Leu Ser Gly Leu
 20 25 30
 Trp Pro Leu Gly Thr Phe Pro Leu Ile Thr Phe Leu Pro Thr Trp Leu
 35 40 45
 Ser Tyr Gly *
 50 51

<210> 1334

<211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1334
 Met Ile Leu Phe Gln Leu Pro Ser Asn Val Phe Val Leu Leu Met Phe
 1 5 10 15
 Leu Phe Leu Phe Glu Phe Phe Leu Thr Leu Val Pro Met Trp Ala Phe
 20 25 30
 Pro Gly Asp Lys Thr Phe Val Ser Pro Ala Ser Ser Leu Ser Phe Leu
 35 40 45
 Asp Leu Ser Phe Leu Leu Phe Cys Asn Ser Val Ser Ile Gly Lys Gln
 50 55 60 64
 *

<210> 1335
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1335
 Met Leu His Pro Glu Thr Ser Pro Gly Arg Gly His Leu Leu Ala Val
 1 5 10 15
 Leu Leu Ala Leu Leu Gly Thr Ala Trp Ala Glu Val Trp Pro Pro Gln
 20 25 30
 Leu Gln Glu Gln Ala Pro Met Ala Gly Ala Leu Asn Arg Lys Glu Ser
 35 40 45
 Phe Leu Leu Leu Ser Leu His Asn Arg Leu Arg Ser Trp Val Gln Pro
 50 55 60
 Pro Ala Ala Asp Met Arg Arg Leu Asp Trp Ser Asp Ser Leu Ala Gln
 65 70 75 80
 Leu Ala Gln Ala Arg Ala Ala Leu Cys Gly Ile Pro Thr Pro Ser Leu
 85 90 95
 Ala Ser Gly Leu Trp Arg Thr Leu Gln Val Gly Trp Asn Met Gln Leu
 100 105 110 112

<210> 1336
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1336
 Met Thr Gly Asn Leu Cys Phe Phe Ser Ile Lys Gly Tyr Leu Leu Thr
 1 5 10 15
 Ser Glu Ile Leu Met Ile Tyr Leu Thr Leu Glu Phe Cys Ile Leu Arg
 20 25 30
 Gly Lys His Leu Asn Val Ser Phe Lys Ala Gly Asp Thr Phe Ile Leu
 35 40 45
 Tyr Leu Gly Ser Leu Gly Phe Glu Glu Glu Gly Gly Pro Glu Ile Leu

```

      50              55              60
Lys Asp Cys Met Gly Gly Leu Ser Ser Pro Pro Leu Trp Lys Ala Glu
 65              70              75              80
Ala Gly Cys Ile Ile Trp Gly Leu Gly Val Trp Asp His Pro Trp Ala
      85              90              95
Thr Thr Arg His Pro Leu Leu Cys *
      100              104

```

```

<210> 1337
<211> 57
<212> PRT
<213> Homo sapiens

```

```

      <400> 1337
Met Tyr Val Leu Ser Ser Ala His Leu Cys Phe Leu Cys Leu Gln Cys
 1              5              10              15
Ser Ser Leu Glu Val Tyr Leu Ile Ser Ser Leu Thr Ser Phe Arg Ser
      20              25              30
Val Leu Asn Cys Tyr Pro Pro Glu Arg Ser Ser Leu Thr Ile Gln Tyr
      35              40              45
Gln Ile Leu Leu Leu Leu Leu Gln *
      50              55 56

```

```

<210> 1338
<211> 59
<212> PRT
<213> Homo sapiens

```

```

      <400> 1338
Met Arg Ile Ile Ser Leu Thr Leu Met Leu Leu Glu Leu Phe Asp Ser
 1              5              10              15
Glu Asp Pro Arg Gln Arg Glu Tyr Leu Lys Asn Ile Leu His Arg Leu
      20              25              30
Tyr Gly Arg Met Leu Gly Leu Arg Pro Tyr Ile His Lys Gln Ser Lys
      35              40              45
His Ile Phe Leu Arg Met Ile Tyr Glu Phe *
      50              55              58

```

```

<210> 1339
<211> 50
<212> PRT
<213> Homo sapiens

```

```

      <400> 1339
Met Ile Lys Leu Ala Ile Trp Ser Ile Ile Ile Gly Leu Arg Leu Thr
 1              5              10              15
Ile Leu Phe Cys Ile Glu Thr Arg Glu Ser Asp Ile Cys Lys Ile Leu
      20              25              30
Gln Tyr Thr Glu Ser Thr Ile Phe Trp Arg Phe Phe Pro Val Tyr Arg
      35              40              45

```


Tyr *
49

<210> 1340
<211> 81
<212> PRT
<213> Homo sapiens

<400> 1340
Met Pro Leu Ala Cys Thr Gly Leu Asn Thr Gln Arg Phe Ser Tyr Leu
1 5 10 15
Arg Asp Leu Phe Leu Pro Trp Gly Leu Cys Ile Leu Tyr Ser Ile Leu
20 25 30
Ser Ala Ile Phe Pro Asp Leu Ser Ser Ser Ala Lys Leu Pro Ser Leu
35 40 45
His Ile Ala Phe Phe Thr Leu Phe Lys Val Thr Lys Gly Thr Ser Pro
50 55 60
Lys Ala Thr Asp Val Pro Val Ala Cys Phe Ile Asn His Asn Arg Thr
65 70 75 80
*

<210> 1341
<211> 60
<212> PRT
<213> Homo sapiens

<400> 1341
Met Phe Glu Ile His Arg Ala His Gly Val Phe Leu Leu Leu Ser Ile
1 5 10 15
Gln Leu Thr Thr Ser Leu Lys Arg Lys Ser Gly Glu Gly Asp Arg Glu
20 25 30
Ser Pro Ala Ser Trp Phe Ser Pro Phe Ser Gln Met Phe Phe Leu Ile
35 40 45
Asn Thr Ile Leu Leu Pro Phe Lys Ile Pro Ile *
50 55 59

<210> 1342
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1342
Met Leu Ser Leu Phe Ile Phe Leu Arg Phe Leu Pro Leu Gly Phe Cys
1 5 10 15
Trp Lys Glu Leu His Pro Glu Ala Glu Gln Ser Glu Lys Val Asp Phe
20 25 30
Arg Lys Pro Trp Tyr Leu Thr Gly His Ala Ala Ser Leu Gly Ala Asp
35 40 45 48
*

<210> 1343
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1343
 Met Arg Leu Ala Val Ser Cys Ile Thr Ser Phe Leu Met Leu Ser Leu
 1 5 10 15
 Leu Leu Phe Met Ala His Arg Leu Arg Gln Arg Arg Arg Glu Arg Ile
 20 25 30
 Glu Ser Leu Ile Gly Ala Asn Leu His His Phe Asn Leu Gly Arg Arg
 35 40 45
 Ile Pro Gly Phe Asp Tyr Gly Pro Asp Gly Phe Gly Thr Gly Leu Thr
 50 55 60
 Pro Leu Ala Phe Phe *
 65 69

<210> 1344
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1344
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
 1 5 10 15
 Cys Leu Tyr Leu Ser Leu Ala Leu Tyr Leu Gly Ser Phe Phe Cys Leu
 20 25 30
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
 35 40 45
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
 50 55 60
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
 65 70 75 80
 Met Gln Lys Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Pro Arg Gly
 85 90 95
 Trp Ala *
 98

<210> 1345
 <211> 112
 <212> PRT
 <213> Homo sapiens

<400> 1345
 Met Lys Val Leu Trp Ala Gly Val Leu Gly Thr Phe Leu Ala Gly Cys
 1 5 10 15
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
 20 25 30

Cys Gln Gln Thr Glu Trp Lys Ser Gly Gln Arg Trp Glu Leu Glu Leu
 35 40 45
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Glu Gln Thr Leu Ser Glu Gln
 50 55 60
 Val Gln Glu Glu Leu Val Ser Ser Gln Val Thr Gln Glu Leu Lys Ala
 65 70 75 80
 Leu Met Asp Glu Thr Met Lys Glu Met Lys Ala Tyr Lys Ser Asp Leu
 85 90 95
 Glu Glu Gln Leu Thr Pro Val Ala Gly Arg Arg Trp His Gly Cys Thr
 100 105 110 112

<210> 1346

<211> 360

<212> PRT

<213> Homo sapiens

<400> 1346

Met Leu Phe Val Pro Val Thr Leu Cys Met Ile Val Val Val Ala Thr
 1 5 10 15
 Ile Lys Ser Val Arg Phe Tyr Thr Glu Lys Asn Gly Gln Leu Ile Tyr
 20 25 30
 Thr Pro Phe Thr Glu Asp Thr Pro Ser Val Gly Gln Arg Leu Leu Asn
 35 40 45
 Ser Val Leu Asn Thr Leu Ile Met Ile Ser Val Ile Val Val Met Thr
 50 55 60
 Ile Phe Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys Phe Ile His
 65 70 75 80
 Gly Trp Leu Ile Met Ser Ser Leu Met Leu Leu Phe Leu Phe Thr Tyr
 85 90 95
 Ile Tyr Leu Gly Glu Val Leu Lys Thr Tyr Asn Val Ala Met Asp Tyr
 100 105 110
 Pro Thr Leu Leu Leu Thr Val Trp Asn Phe Gly Ala Val Gly Met Val
 115 120 125
 Cys Ile His Trp Lys Gly Pro Leu Val Leu Gln Gln Ala Tyr Leu Ile
 130 135 140
 Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr Leu Pro Glu
 145 150 155 160
 Trp Ser Ala Trp Val Ile Leu Gly Ala Ile Ser Val Tyr Asp Leu Val
 165 170 175
 Ala Val Leu Cys Pro Lys Gly Pro Leu Arg Met Leu Val Glu Thr Ala
 180 185 190
 Gln Glu Arg Asn Glu Pro Ile Phe Pro Ala Leu Ile Tyr Ser Ser Ala
 195 200 205
 Met Val Trp Thr Val Gly Met Ala Lys Leu Asp Pro Ser Ser Gln Gly
 210 215 220
 Ala Leu Gln Leu Pro Tyr Asp Pro Glu Met Glu Glu Asp Ser Tyr Asp
 225 230 235 240
 Ser Phe Gly Glu Pro Ser Tyr Pro Glu Val Phe Glu Pro Pro Leu Thr
 245 250 255
 Gly Tyr Pro Gly Glu Glu Leu Glu Glu Glu Glu Arg Gly Val Lys
 260 265 270
 Leu Gly Leu Gly Asp Phe Ile Phe Tyr Ser Val Leu Val Gly Lys Ala
 275 280 285
 Ala Ala Thr Gly Ser Gly Asp Trp Asn Thr Thr Leu Ala Cys Phe Val

290 295 300
 Ala Ile Leu Ile Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Val Phe
 305 310 315 320
 Lys Lys Ala Leu Pro Ala Leu Pro Ile Ser Ile Thr Phe Gly Leu Ile
 325 330 335
 Phe Tyr Phe Ser Thr Asp Asn Leu Val Arg Pro Phe Met Asp Thr Leu
 340 345 350
 Ala Ser His Gln Leu Tyr Ile *
 355 359

<210> 1347

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1347

Met Ile Leu Ser Leu Tyr Tyr Lys Leu Phe Gly Lys Leu Ala Val Ala
 1 5 10 15
 Thr Ile Glu Ile Leu His Cys Leu Cys Tyr Ile Glu Phe Val Ile Ile
 20 25 30
 Phe Lys Gly Phe Lys Lys Ile Pro Ile Cys Phe Phe Ser Phe Leu Phe
 35 40 45
 Ser Phe Val Pro His His Leu Asn Tyr Leu Gly Lys Tyr His Ser Ser
 50 55 60
 Lys Phe Glu Tyr Cys Leu Ser Asn Lys Lys Lys Cys Glu Arg Tyr Glu
 65 70 75 80
 Glu Glu Arg *
 83

<210> 1348

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1348

Met Val His Leu Leu Leu Val Phe Trp Ser Gly Pro His Asn Leu Gly
 1 5 10 15
 Arg Phe Gln Pro Met Lys Leu Phe Ala Ile Cys Leu Asn Gln Ser Gly
 20 25 30
 Tyr Ile Ile Ala Phe Phe Val Leu Tyr Thr Asn Arg Met Tyr Ser Ile
 35 40 45
 Ile Asn Ile Ile Leu Asn Leu Phe Tyr Pro Val Tyr Tyr Cys Lys Ile
 50 55 60 64
 *

<210> 1349

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1349

```

Met Pro Ser Pro Ser Gly Leu Trp Arg Ile Leu Leu Leu Val Leu Gly
 1              5              10              15
Ser Val Leu Ser Gly Ser Ala Arg Ala Ala Pro Leu Arg Val Leu
              20              25              30
Arg Gln Thr Ala Leu Cys Cys Ala Thr Glu Ala Leu Val Ala Val Pro
              35              40              45
Glu Gly Ile Pro Thr Glu Thr Arg Leu *
 50              55              57

```

<210> 1350

<211> 60

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(60)

<223> Xaa = any amino acid or nothing

<400> 1350

```

Met Gly Ile Gly Cys Trp Arg Asn Pro Leu Val Leu Leu Met Ala Leu
 1              5              10              15
Ala Cys Gln Ala Ser Trp Gly Leu Ser Lys Gly Gly Arg Val Leu Pro
              20              25              30
Asn Leu Cys Pro Lys Lys Met Phe Xaa Thr Leu Phe Phe Phe Asn Ser
              35              40              45
Gln Arg Gly Arg Gly Pro Pro Phe Trp Ala Gly Gly
 50              55              60

```

<210> 1351

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1351

```

Met Leu Leu Ala Leu Pro Leu Ala Ala Pro Ser Cys Pro Met Leu Cys
 1              5              10              15
Thr Cys Tyr Ser Ser Pro Pro Thr Val Ser Cys Gln Ala Asn Asn Phe
              20              25              30
Ser Ser Val Pro Leu Ser Leu Pro Ser Thr Gln Arg Leu Phe Leu
              35              40              45
Gln Asn Asn Leu Ile Arg Thr Leu
 50              55              56

```

<210> 1352

<211> 701

<212> PRT

<213> Homo sapiens

<400> 1352

Met Glu Pro Leu Cys Pro Leu Leu Leu Val Gly Phe Ser Leu Pro Leu
 1 5 10 15
 Ala Arg Ala Leu Arg Gly Asn Glu Thr Thr Ala Asp Ser Asn Glu Thr
 20 25 30
 Thr Thr Thr Ser Gly Pro Pro Asp Pro Gly Ala Ser Gln Pro Leu Leu
 35 40 45
 Ala Trp Leu Leu Leu Pro Leu Leu Leu Leu Leu Val Leu Leu Leu
 50 55 60
 Ala Ala Tyr Phe Phe Arg Phe Arg Lys Gln Arg Lys Ala Val Val Ser
 65 70 75 80
 Thr Ser Asp Lys Lys Met Pro Asn Gly Ile Leu Glu Glu Gln Glu Gln
 85 90 95
 Gln Arg Val Met Leu Leu Ser Arg Ser Pro Ser Gly Pro Lys Lys Tyr
 100 105 110
 Phe Pro Ile Pro Val Glu His Leu Glu Glu Glu Ile Arg Ile Arg Ser
 115 120 125
 Ala Asp Asp Cys Lys Gln Phe Arg Glu Glu Phe Asn Ser Leu Pro Ser
 130 135 140
 Gly His Ile Gln Gly Thr Phe Glu Leu Ala Asn Lys Glu Glu Asn Arg
 145 150 155 160
 Glu Lys Asn Arg Tyr Pro Asn Ile Leu Pro Asn Asp His Ser Arg Val
 165 170 175
 Ile Leu Ser Gln Leu Asp Gly Ile Pro Cys Ser Asp Tyr Ile Asn Ala
 180 185 190
 Ser Tyr Ile Asp Gly Tyr Lys Glu Lys Asn Lys Phe Ile Ala Ala Gln
 195 200 205
 Gly Pro Lys Gln Glu Thr Val Asn Asp Phe Trp Arg Met Val Trp Glu
 210 215 220
 Gln Lys Ser Ala Thr Ile Val Met Leu Thr Asn Leu Lys Glu Arg Lys
 225 230 235 240
 Glu Glu Lys Cys His Gln Tyr Trp Pro Asp Gln Gly Cys Trp Thr Tyr
 245 250 255
 Gly Asn Ile Arg Val Cys Val Glu Asp Cys Val Val Leu Val Asp Tyr
 260 265 270
 Thr Ile Arg Lys Phe Cys Ile Gln Pro Gln Leu Pro Asp Gly Cys Lys
 275 280 285
 Ala Pro Arg Leu Val Ser Gln Leu His Phe Thr Ser Trp Pro Asp Phe
 290 295 300
 Gly Val Pro Phe Thr Pro Ile Gly Met Leu Lys Phe Leu Lys Lys Val
 305 310 315 320
 Lys Thr Leu Asn Pro Val His Ala Gly Pro Ile Val Val His Cys Ser
 325 330 335
 Ala Gly Val Gly Arg Thr Gly Thr Phe Ile Val Ile Asp Ala Met Met
 340 345 350
 Ala Met Met His Ala Glu Gln Lys Val Asp Val Phe Glu Phe Val Ser
 355 360 365
 Arg Ile Arg Asn Gln Arg Pro Gln Met Val Gln Thr Asp Met Gln Tyr
 370 375 380
 Thr Phe Ile Tyr Gln Ala Leu Leu Glu Tyr Tyr Leu Tyr Gly Asp Thr
 385 390 395 400
 Glu Leu Asp Val Ser Ser Leu Glu Lys His Leu Gln Thr Met His Gly
 405 410 415
 Thr Thr Thr His Phe Asp Lys Ile Gly Leu Glu Glu Glu Phe Arg Lys
 420 425 430
 Leu Thr Asn Val Arg Ile Met Lys Glu Asn Met Arg Thr Gly Asn Leu
 435 440 445
 Pro Ala Asn Met Lys Lys Ala Arg Val Ile Gln Ile Ile Pro Tyr Asp
 450 455 460

Phe Asn Arg Val Ile Leu Ser Met Lys Arg Gly Gln Glu Tyr Thr Asp
 465 470 475 480
 Tyr Ile Asn Ala Ser Phe Ile Asp Gly Tyr Arg Gln Lys Asp Tyr Phe
 485 490 495
 Ile Ala Thr Gln Gly Pro Leu Ala His Thr Val Glu Asp Phe Trp Arg
 500 505 510
 Met Ile Trp Glu Trp Lys Ser His Thr Ile Val Met Leu Thr Glu Val
 515 520 525
 Gln Glu Arg Glu Gln Asp Lys Cys Tyr Gln Tyr Trp Pro Thr Glu Gly
 530 535 540
 Ser Val Thr His Gly Glu Ile Thr Ile Glu Ile Lys Asn Asp Thr Leu
 545 550 555 560
 Ser Glu Ala Ile Ser Ile Arg Asp Phe Leu Val Thr Leu Asn Gln Pro
 565 570 575
 Gln Ala Arg Gln Glu Gln Val Arg Val Val Arg Gln Phe His Phe
 580 585 590
 His Gly Trp Pro Glu Ile Gly Ile Pro Ala Glu Gly Lys Gly Met Ile
 595 600 605
 Asp Leu Ile Ala Ala Val Gln Lys Gln Gln Gln Gln Thr Gly Asn His
 610 615 620
 Pro Ile Thr Val His Cys Ser Ala Gly Ala Gly Arg Thr Gly Thr Phe
 625 630 635 640
 Ile Ala Leu Ser Asn Ile Leu Glu Arg Val Lys Ala Glu Gly Leu Leu
 645 650 655
 Asp Val Phe Gln Ala Val Lys Ser Leu Arg Leu Gln Arg Pro His Met
 660 665 670
 Val Gln Thr Leu Glu Gln Tyr Glu Phe Cys Tyr Lys Val Val Gln Asp
 675 680 685
 Phe Ile Asp Ile Phe Ser Asp Tyr Ala Asn Phe Lys *
 690 695 700

<210> 1353
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1353
 Met Ala Phe Leu Tyr His Val Ala Tyr Val Leu Val Cys Met Leu Gly
 1 5 10 15
 Leu Phe Cys His Glu Phe Phe Tyr Ser Phe Leu Leu Phe Glu Ser Val
 20 25 30
 Tyr Arg His Gln Thr Leu Leu Asn Asp Ile Pro Cys Val Lys Leu Met
 35 40 45 48
 *

<210> 1354
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1354
 Met Ser Val Cys Lys Tyr Thr Val Tyr Gly Phe Phe Ile Phe Ala Phe

```

1           5           10           15
Phe Tyr Phe Thr Lys Asp Asn Ile Pro Tyr Leu Lys Val Ser Leu Gln
           20           25           30
Ala Phe Cys Gly Phe Gln Asn Ile Ser Trp Asn Lys Tyr Thr Leu Leu
           35           40           45
Phe Tyr Tyr Ser Pro Leu Thr Ile Ile *
           50           55           57

```

<210> 1355

<211> 4261

<212> PRT

<213> Homo sapiens

<400> 1355

```

Met Leu Ser Ala Ile Leu Leu Leu Leu Gln Leu Trp Asp Ser Gly Ala
1           5           10           15
Gln Glu Thr Asp Asn Glu Arg Ser Ala Gln Gly Thr Ser Ala Pro Leu
           20           25           30
Leu Pro Leu Leu Gln Arg Phe Gln Ser Ile Ile Cys Arg Lys Asp Ala
           35           40           45
Pro His Ser Glu Gly Asp Met His Leu Leu Ser Gly Pro Leu Ser Pro
           50           55           60
Asn Glu Ser Phe Leu Arg Tyr Leu Thr Leu Pro Gln Asp Asn Glu Leu
           65           70           75           80
Ala Ile Asp Leu Arg Gln Thr Ala Val Val Val Met Ala His Leu Asp
           85           90           95
Arg Leu Ala Thr Pro Cys Met Pro Pro Leu Cys Ser Ser Pro Thr Ser
           100           105           110
His Lys Gly Ser Leu Gln Glu Val Ile Gly Trp Gly Leu Ile Gly Trp
           115           120           125
Lys Tyr Tyr Ala Asn Val Ile Gly Pro Ile Gln Cys Glu Gly Leu Ala
           130           135           140
Asn Leu Gly Val Thr Gln Ile Ala Cys Ala Glu Lys Arg Phe Leu Ile
           145           150           155           160
Leu Ser Arg Asn Gly Arg Val Tyr Thr Gln Ala Tyr Asn Ser Asp Thr
           165           170           175
Leu Ala Pro Gln Leu Val Gln Gly Leu Ala Ser Arg Asn Ile Val Lys
           180           185           190
Ile Ala Ala His Ser Asp Gly His His Tyr Leu Ala Leu Ala Ala Thr
           195           200           205
Gly Glu Val Tyr Ser Trp Gly Cys Gly Asp Gly Gly Arg Leu Gly His
           210           215           220
Gly Asp Thr Val Pro Leu Glu Glu Pro Lys Val Ile Ser Ala Phe Ser
           225           230           235           240
Gly Lys Gln Ala Gly Lys His Val Val His Ile Ala Cys Gly Ser Thr
           245           250           255
Tyr Ser Ala Ala Ile Thr Ala Glu Gly Glu Leu Tyr Thr Trp Gly Arg
           260           265           270
Gly Asn Tyr Gly Arg Leu Gly His Gly Ser Ser Glu Asp Glu Ala Ile
           275           280           285
Pro Met Leu Val Ala Gly Leu Lys Gly Leu Lys Val Ile Asp Val Ala
           290           295           300
Cys Gly Ser Gly Asp Ala Gln Thr Leu Ala Val Thr Glu Asn Gly Gln
           305           310           315           320
Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu Gly Arg Gly Gly
           325           330           335

```


Ser Asp Gly Cys Lys Thr Pro Lys Leu Ile Glu Lys Leu Gln Asp Leu
 340 345 350
 Asp Val Val Lys Val Arg Cys Gly Ser Gln Phe Ser Ile Ala Leu Thr
 355 360 365
 Lys Asp Gly Gln Val Tyr Ser Trp Gly Lys Gly Asp Asn Gln Arg Leu
 370 375 380
 Gly His Gly Thr Glu Glu His Val Arg Tyr Pro Lys Leu Leu Glu Gly
 385 390 395 400
 Leu Gln Gly Lys Lys Val Ile Asp Val Ala Ala Gly Ser Thr His Cys
 405 410 415
 Leu Ala Leu Thr Glu Asp Ser Glu Val His Ser Trp Gly Ser Asn Asp
 420 425 430
 Gln Cys Gln His Phe Asp Thr Leu Arg Val Thr Lys Pro Glu Pro Ala
 435 440 445
 Ala Leu Pro Gly Leu Asp Thr Lys His Ile Val Gly Ile Ala Cys Gly
 450 455 460
 Pro Ala Gln Ser Phe Ala Trp Ser Ser Cys Ser Glu Trp Ser Ile Gly
 465 470 475 480
 Leu Arg Val Pro Phe Val Val Asp Ile Cys Ser Met Thr Phe Glu Gln
 485 490 495
 Leu Asp Leu Leu Leu Arg Gln Val Ser Glu Gly Met Asp Gly Ser Ala
 500 505 510
 Asp Trp Pro Pro Pro Gln Glu Lys Glu Cys Val Ala Val Ala Thr Leu
 515 520 525
 Asn Leu Leu Arg Leu Gln Leu His Ala Ala Ile Ser His Gln Val Asp
 530 535 540
 Pro Glu Phe Leu Gly Leu Gly Leu Gly Ser Ile Leu Leu Asn Ser Leu
 545 550 555 560
 Lys Gln Thr Val Val Thr Leu Ala Ser Ser Ala Gly Val Leu Ser Thr
 565 570 575
 Val Gln Ser Ala Ala Gln Ala Val Leu Gln Ser Gly Trp Ser Val Leu
 580 585 590
 Leu Pro Thr Ala Glu Glu Arg Ala Arg Ala Leu Ser Ala Leu Leu Pro
 595 600 605
 Cys Ala Val Ser Gly Asn Glu Val Asn Ile Ser Pro Gly Arg Arg Phe
 610 615 620
 Met Ile Asp Leu Leu Val Gly Ser Leu Met Ala Asp Gly Gly Leu Glu
 625 630 635 640
 Ser Ala Leu His Ala Ala Ile Thr Ala Glu Ile Gln Asp Ile Glu Ala
 645 650 655
 Lys Lys Glu Ala Gln Lys Glu Lys Glu Ile Asp Glu Gln Glu Ala Asn
 660 665 670
 Ala Ser Thr Phe His Arg Ser Arg Thr Pro Leu Asp Lys Asp Leu Ile
 675 680 685
 Asn Thr Gly Ile Cys Glu Ser Ser Gly Lys Gln Cys Leu Pro Leu Val
 690 695 700
 Gln Leu Ile Gln Gln Leu Leu Arg Asn Ile Ala Ser Gln Thr Val Ala
 705 710 715 720
 Arg Leu Lys Asp Val Ala Arg Arg Ile Ser Ser Cys Leu Asp Phe Glu
 725 730 735
 Gln His Ser Arg Glu Arg Ser Ala Ser Leu Asp Trp Leu Leu Arg Phe
 740 745 750
 Gln Arg Leu Leu Ile Ser Lys Leu Tyr Pro Gly Glu Ser Ile Gly Gln
 755 760 765
 Thr Ser Asp Ile Ser Ser Pro Glu Leu Met Gly Val Gly Ser Leu Leu
 770 775 780
 Lys Lys Tyr Thr Ala Leu Leu Cys Thr His Ile Gly Asp Ile Leu Pro
 785 790 795 800
 Val Ala Ala Ser Ile Ala Ser Thr Ser Trp Arg His Phe Ala Glu Val

					805					810					815				
Ala	Tyr	Ile	Val	Glu	Gly	Asp	Phe	Thr	Gly	Val	Leu	Leu	Pro	Glu	Leu				
			820					825					830						
Val	Val	Ser	Ile	Val	Leu	Leu	Leu	Ser	Lys	Asn	Ala	Asp	Leu	Met	Gln				
		835				840						845							
Glu	Ala	Gly	Ala	Val	Pro	Leu	Leu	Gly	Gly	Leu	Leu	Glu	His	Leu	Asp				
		850				855						860							
Arg	Phe	Asn	His	Leu	Ala	Pro	Gly	Lys	Glu	Arg	Asp	Asp	His	Glu	Glu				
865					870					875				880					
Leu	Ala	Trp	Pro	Gly	Ile	Met	Glu	Ser	Phe	Phe	Thr	Gly	Gln	Asn	Cys				
			885						890				895						
Arg	Asn	Asn	Glu	Glu	Val	Thr	Leu	Ile	Arg	Lys	Ala	Asp	Leu	Glu	Asn				
			900					905					910						
His	Asn	Lys	Asp	Gly	Gly	Phe	Trp	Thr	Val	Ile	Asp	Gly	Lys	Val	Tyr				
		915				920						925							
Asp	Ile	Lys	Asp	Phe	Gln	Thr	Gln	Ser	Leu	Thr	Gly	Asn	Ser	Ile	Leu				
		930				935					940								
Ala	Gln	Phe	Ala	Gly	Glu	Asp	Pro	Val	Val	Ala	Leu	Glu	Ala	Ala	Leu				
945					950					955				960					
Gln	Phe	Glu	Asp	Thr	Arg	Glu	Ser	Met	His	Ala	Phe	Cys	Val	Gly	Gln				
			965						970				975						
Tyr	Leu	Glu	Pro	Asp	Gln	Glu	Ile	Val	Thr	Ile	Pro	Asp	Leu	Gly	Ser				
			980					985					990						
Leu	Ser	Ser	Pro	Leu	Ile	Asp	Thr	Glu	Arg	Asn	Leu	Gly	Leu	Leu	Leu				
		995				1000						1005							
Gly	Leu	His	Ala	Ser	Tyr	Leu	Ala	Met	Ser	Thr	Pro	Leu	Ser	Pro	Val				
		1010				1015					1020								
Glu	Ile	Glu	Cys	Ala	Lys	Trp	Leu	Gln	Ser	Ser	Ile	Phe	Ser	Gly	Gly				
1025					1030					1035				1040					
Leu	Gln	Thr	Ser	Gln	Ile	His	Tyr	Arg	Tyr	Asn	Glu	Glu	Lys	Asp	Glu				
			1045						1050					1055					
Asp	His	Cys	Ser	Ser	Pro	Gly	Gly	Thr	Pro	Ala	Ser	Lys	Ser	Arg	Leu				
			1060					1065					1070						
Cys	Ser	His	Arg	Arg	Ala	Leu	Gly	Asp	His	Ser	Gln	Ala	Phe	Leu	Gln				
			1075					1080				1085							
Ala	Ile	Ala	Asp	Asn	Asn	Ile	Gln	Asp	His	Asn	Val	Lys	Asp	Phe	Leu				
</																			

Pro His Ser Pro Ile Asn Val Asp Lys Arg Pro Ile Ala Ile Lys Ser
 1285 1290 1295
 Pro Lys Asp Lys Trp Gln Pro Leu Leu Ser Thr Val Thr Gly Val His
 1300 1305 1310
 Lys Tyr Lys Trp Leu Lys Gln Asn Val Gln Gly Leu Tyr Pro Gln Ser
 1315 1320 1325
 Pro Leu Leu Ser Thr Ile Ala Glu Phe Ala Leu Lys Glu Glu Pro Val
 1330 1335 1340
 Asp Val Glu Lys Met Arg Lys Cys Leu Leu Lys Gln Leu Glu Arg Ala
 1345 1350 1355 1360
 Glu Val Arg Leu Glu Gly Ile Asp Thr Ile Leu Lys Leu Ala Ser Lys
 1365 1370 1375
 Asn Phe Leu Leu Pro Ser Val Gln Tyr Ala Met Phe Cys Gly Trp Gln
 1380 1385 1390
 Arg Leu Ile Pro Glu Gly Ile Asp Ile Gly Glu Pro Leu Thr Asp Cys
 1395 1400 1405
 Leu Lys Asp Val Asp Leu Ile Pro Pro Phe Asn Arg Met Leu Leu Glu
 1410 1415 1420
 Val Thr Phe Gly Lys Leu Tyr Ala Trp Ala Val Gln Asn Ile Arg Asn
 1425 1430 1435 1440
 Val Leu Met Asp Ala Ser Ala Thr Phe Lys Glu Leu Gly Ile Gln Pro
 1445 1450 1455
 Val Pro Leu Gln Thr Ile Thr Asn Glu Asn Pro Ser Gly Pro Ser Leu
 1460 1465 1470
 Gly Thr Ile Pro Gln Ala Arg Phe Leu Leu Val Met Leu Ser Met Leu
 1475 1480 1485
 Thr Leu Gln His Gly Ala Asn Asn Leu Asp Leu Leu Asn Ser Gly
 1490 1495 1500
 Met Leu Ala Leu Thr Gln Thr Ala Leu Arg Leu Ile Gly Pro Ser Cys
 1505 1510 1515 1520
 Asp Asn Val Glu Glu Asp Met Asn Ala Ser Ala Gln Gly Ala Ser Ala
 1525 1530 1535
 Thr Val Leu Glu Glu Thr Arg Lys Glu Thr Ala Pro Val Gln Leu Pro
 1540 1545 1550
 Val Ser Gly Pro Glu Leu Ala Ala Met Met Lys Ile Gly Thr Arg Val
 1555 1560 1565
 Met Arg Gly Val Asp Trp Lys Trp Gly Asp Gln Asp Gly Pro Pro Pro
 1570 1575 1580
 Gly Leu Gly Arg Val Ile Gly Glu Leu Gly Glu Asp Gly Trp Ile Arg
 1585 1590 1595 1600
 Val Gln Trp Asp Thr Gly Ser Thr Asn Ser Tyr Arg Met Gly Lys Glu
 1605 1610 1615
 Gly Lys Tyr Asp Leu Lys Leu Ala Glu Leu Pro Ala Ala Ala Gln Pro
 1620 1625 1630
 Ser Ala Glu Asp Ser Asp Thr Glu Asp Asp Ser Glu Ala Glu Gln Thr
 1635 1640 1645
 Glu Arg Asn Ile His Pro Thr Ala Met Met Phe Thr Ser Thr Ile Asn
 1650 1655 1660
 Leu Leu Gln Thr Leu Cys Leu Ser Ala Gly Val His Ala Glu Ile Met
 1665 1670 1675 1680
 Gln Ser Glu Ala Thr Lys Thr Leu Cys Gly Leu Leu Arg Met Leu Val
 1685 1690 1695
 Glu Ser Gly Thr Thr Asp Lys Thr Ser Ser Pro Asn Arg Leu Val Tyr
 1700 1705 1710
 Arg Glu Gln His Arg Ser Trp Cys Thr Leu Gly Phe Val Arg Ser Ile
 1715 1720 1725
 Ala Leu Thr Pro Gln Val Cys Gly Ala Leu Ser Ser Pro Gln Trp Ile
 1730 1735 1740
 Thr Leu Leu Met Lys Val Val Glu Gly His Ala Pro Phe Thr Ala Thr

1745 1750 1755 1760
 Ser Leu Gln Arg Gln Ile Leu Ala Val His Leu Leu Gln Ala Val Leu
 1765 1770 1775
 Pro Ser Trp Asp Lys Thr Glu Arg Ala Arg Asp Met Lys Cys Leu Val
 1780 1785 1790
 Glu Lys Leu Phe Asp Phe Leu Gly Ser Leu Leu Thr Thr Cys Ser Ser
 1795 1800 1805
 Asp Val Pro Leu Leu Arg Glu Ser Thr Leu Arg Arg Arg Val Arg
 1810 1815 1820
 Pro Gln Ala Ser Leu Thr Ala Thr His Ser Ser Thr Leu Ala Glu Glu
 1825 1830 1835 1840
 Val Val Ala Leu Leu Arg Thr Leu His Ser Leu Thr Gln Trp Asn Gly
 1845 1850 1855
 Leu Ile Asn Lys Tyr Ile Asn Ser Gln Leu Arg Ser Ile Thr His Ser
 1860 1865 1870
 Phe Val Gly Arg Pro Ser Glu Gly Ala Gln Leu Glu Asp Tyr Phe Pro
 1875 1880 1885
 Asp Ser Glu Asn Pro Glu Val Gly Gly Leu Met Ala Val Leu Ala Val
 1890 1895 1900
 Ile Gly Gly Ile Asp Gly Arg Leu Arg Leu Gly Gly Gln Val Met His
 1905 1910 1915 1920
 Asp Glu Phe Gly Glu Gly Thr Val Thr Arg Ile Thr Pro Lys Gly Lys
 1925 1930 1935
 Ile Thr Val Gln Phe Ser Asp Met Arg Thr Cys Arg Val Cys Pro Leu
 1940 1945 1950
 Asn Gln Leu Lys Pro Leu Pro Ala Val Ala Phe Asn Val Asn Asn Leu
 1955 1960 1965
 Pro Phe Thr Glu Pro Met Leu Ser Val Trp Ala Gln Leu Val Asn Leu
 1970 1975 1980
 Ala Gly Ser Lys Leu Glu Lys His Lys Ile Lys Lys Ser Thr Lys Gln
 1985 1990 1995 2000
 Ala Phe Ala Gly Gln Val Asp Leu Asp Leu Leu Arg Cys Gln Gln Leu
 2005 2010 2015
 Lys Leu Tyr Ile Leu Lys Ala Gly Arg Ala Leu Leu Ser His Gln Asp
 2020 2025 2030
 Lys Leu Arg Gln Ile Leu Ser Gln Pro Ala Val Gln Glu Thr Gly Thr
 2035 2040 2045
 Val His Thr Asp Asp Gly Ala Val Val Ser Pro Asp Leu Gly Asp Met
 2050 2055 2060
 Ser Pro Glu Gly Pro Gln Pro Pro Met Ile Leu Leu Gln Gln Leu Leu
 2065 2070 2075 2080
 Ala Ser Ala Thr Gln Pro Ser Pro Val Lys Ala Ile Phe Asp Lys Gln
 2085 2090 2095
 Glu Leu Glu Ala Ala Ala Leu Ala Val Cys Gln Cys Leu Ala Val Glu
 2100 2105 2110
 Ser Thr His Pro Ser Ser Pro Gly Phe Glu Asp Cys Ser Ser Ser Glu
 2115 2120 2125
 Ala Thr Thr Pro Val Ala Val Gln His Ile His Pro Ala Arg Val Lys
 2130 2135 2140
 Arg Arg Lys Gln Ser Pro Val Pro Ala Leu Pro Ile Val Val Gln Leu
 2145 2150 2155 2160
 Met Glu Met Gly Phe Ser Arg Arg Asn Ile Glu Phe Ala Leu Lys Ser
 2165 2170 2175
 Leu Thr Gly Ala Ser Gly Asn Ala Ser Ser Leu Pro Gly Val Glu Ala
 2180 2185 2190
 Leu Val Gly Trp Leu Leu Asp His Ser Asp Ile Gln Val Thr Glu Leu
 2195 2200 2205
 Ser Asp Ala Asp Thr Val Ser Asp Glu Tyr Ser Asp Glu Glu Val Val
 2210 2215 2220

Glu Asp Val Asp Asp Ala Ala Tyr Ser Met Ser Thr Gly Ala Val Val
 2225 2230 2235 2240
 Thr Glu Ser Gln Thr Tyr Lys Lys Arg Ala Asp Phe Leu Ser Asn Asp
 2245 2250 2255
 Asp Tyr Ala Val Tyr Val Arg Glu Asn Ile Gln Val Gly Met Met Val
 2260 2265 2270
 Arg Cys Cys Arg Ala Tyr Glu Glu Val Cys Glu Gly Asp Val Gly Lys
 2275 2280 2285
 Val Ile Lys Leu Asp Arg Asp Gly Leu His Asp Leu Asn Val Gln Cys
 2290 2295 2300
 Asp Trp Gln Gln Lys Gly Gly Thr Tyr Trp Val Arg Tyr Ile His Val
 2305 2310 2315 2320
 Glu Leu Ile Gly Tyr Pro Pro Pro Ser Ser Ser His Ile Lys Ile
 2325 2330 2335
 Gly Asp Lys Val Arg Val Lys Ala Ser Val Thr Thr Pro Lys Tyr Lys
 2340 2345 2350
 Trp Gly Ser Val Thr His Gln Ser Val Gly Val Val Lys Ala Phe Ser
 2355 2360 2365
 Ala Asn Gly Lys Asp Ile Ile Val Asp Phe Pro Gln Gln Ser His Trp
 2370 2375 2380
 Thr Gly Leu Leu Ser Glu Met Glu Leu Val Pro Ser Ile His Pro Gly
 2385 2390 2395 2400
 Val Thr Cys Asp Gly Cys Gln Met Phe Pro Ile Asn Gly Ser Arg Phe
 2405 2410 2415
 Lys Cys Arg Asn Cys Asp Asp Phe Asp Phe Cys Glu Thr Cys Phe Lys
 2420 2425 2430
 Thr Lys Lys His Asn Thr Arg His Thr Phe Gly Arg Ile Asn Glu Pro
 2435 2440 2445
 Gly Gln Ser Ala Val Phe Cys Gly Arg Ser Gly Lys Gln Leu Lys Arg
 2450 2455 2460
 Cys His Ser Ser Gln Pro Gly Met Leu Leu Asp Ser Trp Ser Arg Met
 2465 2470 2475 2480
 Val Lys Ser Leu Asn Val Ser Ser Ser Val Asn Gln Ala Ser Arg Leu
 2485 2490 2495
 Ile Asp Gly Ser Glu Pro Cys Trp Gln Ser Ser Gly Ser Gln Gly Lys
 2500 2505 2510
 His Trp Ile Arg Leu Glu Ile Phe Pro Asp Val Leu Val His Arg Leu
 2515 2520 2525
 Lys Met Ile Val Asp Pro Ala Asp Ser Ser Tyr Met Pro Ser Leu Val
 2530 2535 2540
 Val Val Ser Gly Gly Asn Ser Leu Asn Asn Leu Ile Glu Leu Lys Thr
 2545 2550 2555 2560
 Ile Asn Ile Asn Pro Ser Asp Thr Thr Val Pro Leu Leu Asn Asp Tyr
 2565 2570 2575
 Thr Glu Tyr His Arg Tyr Ile Glu Ile Ala Ile Lys Gln Cys Arg Ser
 2580 2585 2590
 Ser Gly Ile Asp Cys Lys Ile His Gly Leu Ile Leu Leu Gly Arg Ile
 2595 2600 2605
 Arg Ala Glu Glu Glu Asp Leu Ala Ala Val Pro Phe Leu Ala Ser Asp
 2610 2615 2620
 Asn Glu Glu Glu Glu Asp Glu Lys Gly Asn Ser Gly Ser Leu Ile Arg
 2625 2630 2635 2640
 Lys Lys Ala Ala Gly Leu Glu Ser Ala Ala Thr Ile Arg Thr Lys Val
 2645 2650 2655
 Phe Val Trp Gly Leu Asn Asp Lys Asp Gln Leu Gly Gly Leu Lys Gly
 2660 2665 2670
 Ser Lys Ile Lys Val Pro Ser Phe Ser Glu Thr Leu Ser Ala Leu Asn
 2675 2680 2685
 Val Val Gln Val Ala Gly Gly Ser Lys Ser Leu Phe Ala Val Thr Val

2690 2695 2700
 Glu Gly Lys Val Tyr Ala Cys Gly Glu Ala Thr Asn Gly Arg Leu Gly
 2705 2710 2715 2720
 Leu Gly Ile Ser Ser Gly Thr Val Pro Ile Pro Arg Gln Ile Thr Ala
 2725 2730 2735
 Leu Ser Ser Tyr Val Val Lys Lys Val Ala Val His Ser Gly Gly Arg
 2740 2745 2750
 His Ala Thr Ala Leu Thr Val Asp Gly Lys Val Phe Ser Trp Gly Glu
 2755 2760 2765
 Gly Asp Asp Gly Lys Leu Gly His Phe Ser Arg Met Asn Cys Asp Lys
 2770 2775 2780
 Pro Arg Leu Ile Glu Ala Leu Lys Thr Lys Arg Ile Arg Asp Ile Ala
 2785 2790 2795 2800
 Cys Gly Ser Ser His Ser Ala Ala Leu Thr Ser Ser Gly Glu Leu Tyr
 2805 2810 2815
 Thr Trp Gly Leu Gly Glu Tyr Gly Arg Leu Gly His Gly Asp Asn Thr
 2820 2825 2830
 Thr Gln Leu Lys Pro Lys Met Val Lys Val Leu Leu Gly His Arg Val
 2835 2840 2845
 Ile Gln Val Ala Cys Gly Ser Arg Asp Ala Gln Thr Leu Ala Leu Thr
 2850 2855 2860
 Asp Glu Gly Leu Val Phe Ser Trp Gly Asp Gly Asp Phe Gly Lys Leu
 2865 2870 2875 2880
 Gly Arg Gly Gly Ser Glu Gly Cys Asn Ile Pro Gln Asn Ile Glu Arg
 2885 2890 2895
 Leu Asn Gly Gln Gly Val Cys Gln Ile Glu Cys Gly Ala Gln Phe Ser
 2900 2905 2910
 Leu Ala Leu Thr Lys Ser Gly Val Val Trp Thr Trp Gly Lys Gly Asp
 2915 2920 2925
 Tyr Phe Arg Leu Gly His Gly Ser Asp Val His Val Arg Lys Pro Gln
 2930 2935 2940
 Val Val Glu Gly Leu Arg Gly Lys Lys Ile Val His Val Ala Val Gly
 2945 2950 2955 2960
 Ala Leu His Cys Leu Ala Val Thr Asp Ser Gly Gln Val Tyr Ala Trp
 2965 2970 2975
 Gly Asp Asn Asp His Gly Gln Gln Gly Asn Gly Thr Thr Thr Val Asn
 2980 2985 2990
 Arg Lys Pro Thr Leu Val Gln Gly Leu Glu Gly Gln Lys Ile Thr Arg
 2995 3000 3005
 Val Ala Cys Gly Ser Ser His Ser Val Ala Trp Thr Thr Val Asp Val
 3010 3015 3020
 Ala Thr Pro Ser Val His Glu Pro Val Leu Phe Gln Thr Ala Arg Asp
 3025 3030 3035 3040
 Pro Leu Gly Ala Ser Tyr Leu Gly Val Pro Ser Asp Ala Asp Ser Ser
 3045 3050 3055
 Ala Ala Ser Asn Lys Ile Ser Gly Ala Ser Asn Ser Lys Pro Asn Arg
 3060 3065 3070
 Pro Ser Leu Ala Lys Ile Leu Leu Ser Leu Asp Gly Asn Leu Ala Lys
 3075 3080 3085
 Gln Gln Ala Leu Ser His Ile Leu Thr Ala Leu Gln Ile Met Tyr Ala
 3090 3095 3100
 Arg Asp Ala Val Val Gly Ala Leu Met Pro Ala Ala Met Ile Ala Pro
 3105 3110 3115 3120
 Val Glu Cys Pro Ser Phe Ser Ser Ala Ala Pro Ser Asp Ala Ser Ala
 3125 3130 3135
 Met Ala Ser Pro Met Asn Gly Glu Glu Cys Met Leu Ala Val Asp Ile
 3140 3145 3150
 Glu Asp Arg Leu Ser Pro Asn Pro Trp Gln Glu Lys Arg Glu Ile Val
 3155 3160 3165

Ser Ser Glu Asp Ala Val Thr Pro Ser Ala Val Thr Pro Ser Ala Pro
 3170 3175 3180
 Ser Ala Ser Ala Arg Pro Phe Ile Pro Val Thr Asp Asp Leu Gly Ala
 3185 3190 3195 3200
 Ala Ser Ile Ile Ala Glu Thr Met Thr Lys Thr Lys Glu Asp Val Glu
 3205 3210 3215
 Ser Gln Asn Lys Ala Ala Gly Pro Glu Pro Gln Ala Leu Asp Glu Phe
 3220 3225 3230
 Thr Ser Leu Leu Ile Ala Asp Asp Thr Arg Val Val Val Asp Leu Leu
 3235 3240 3245
 Lys Leu Ser Val Cys Ser Arg Ala Gly Asp Arg Gly Arg Asp Val Leu
 3250 3255 3260
 Ser Ala Val Leu Ser Gly Met Gly Thr Ala Tyr Pro Gln Val Ala Asp
 3265 3270 3275 3280
 Met Leu Leu Glu Leu Cys Val Thr Glu Leu Glu Asp Val Ala Thr Asp
 3285 3290 3295
 Ser Gln Ser Gly Arg Leu Ser Ser Gln Pro Val Val Val Glu Ser Ser
 3300 3305 3310
 His Pro Tyr Thr Asp Asp Thr Ser Thr Ser Gly Thr Val Lys Ile Pro
 3315 3320 3325
 Gly Ala Glu Gly Leu Arg Val Glu Phe Asp Arg Gln Cys Ser Thr Glu
 3330 3335 3340
 Arg Arg His Asp Pro Leu Thr Val Met Asp Gly Val Asn Arg Ile Val
 3345 3350 3355 3360
 Ser Val Arg Ser Gly Arg Glu Trp Ser Asp Trp Ser Ser Glu Leu Arg
 3365 3370 3375
 Ile Pro Gly Asp Glu Leu Lys Trp Lys Phe Ile Ser Asp Gly Ser Val
 3380 3385 3390
 Asn Gly Trp Gly Trp Arg Phe Thr Val Tyr Pro Ile Met Pro Ala Ala
 3395 3400 3405
 Gly Pro Lys Glu Leu Leu Ser Asp Arg Cys Val Leu Ser Cys Pro Ser
 3410 3415 3420
 Met Asp Leu Val Thr Cys Leu Leu Asp Phe Arg Leu Asn Leu Ala Ser
 3425 3430 3435 3440
 Asn Arg Ser Ile Val Pro Arg Leu Ala Ala Ser Leu Ala Ala Cys Ala
 3445 3450 3455
 Gln Leu Ser Ala Leu Ala Ala Ser His Arg Met Trp Ala Leu Gln Arg
 3460 3465 3470
 Leu Arg Lys Leu Leu Thr Thr Glu Phe Gly Gln Ser Ile Asn Ile Asn
 3475 3480 3485
 Arg Leu Leu Gly Glu Asn Asp Gly Glu Thr Arg Ala Leu Ser Phe Thr
 3490 3495 3500
 Gly Ser Ala Leu Ala Ala Leu Val Lys Gly Leu Pro Glu Ala Leu Gln
 3505 3510 3515 3520
 Arg Gln Phe Glu Tyr Glu Asp Pro Ile Val Arg Gly Gly Lys Gln Leu
 3525 3530 3535
 Leu His Ser Pro Phe Phe Lys Val Leu Val Ala Leu Ala Cys Asp Leu
 3540 3545 3550
 Glu Leu Asp Thr Leu Pro Cys Cys Ala Glu Thr His Lys Trp Ala Trp
 3555 3560 3565
 Phe Arg Arg Tyr Cys Met Ala Ser Arg Val Ala Val Ala Leu Asp Lys
 3570 3575 3580
 Arg Thr Pro Leu Pro Arg Leu Phe Leu Asp Glu Val Ala Lys Lys Ile
 3585 3590 3595 3600
 Arg Glu Leu Met Ala Asp Ser Glu Asn Met Asp Val Leu His Glu Ser
 3605 3610 3615
 His Asp Ile Phe Lys Arg Glu Gln Asp Glu Gln Leu Val Gln Trp Met
 3620 3625 3630
 Asn Arg Arg Pro Asp Asp Trp Thr Leu Ser Ala Gly Gly Ser Gly Thr

3635 3640 3645
 Ile Tyr Gly Trp Gly His Asn His Arg Gly Gln Leu Gly Gly Ile Glu
 3650 3655 3660
 Gly Ala Lys Val Lys Val Pro Thr Pro Cys Glu Ala Leu Ala Thr Leu
 3665 3670 3675 3680
 Arg Pro Val Gln Leu Ile Gly Gly Glu Gln Thr Leu Phe Ala Val Thr
 3685 3690 3695
 Ala Asp Gly Lys Leu Tyr Ala Thr Gly Tyr Gly Ala Gly Gly Arg Leu
 3700 3705 3710
 Gly Ile Gly Gly Thr Glu Ser Val Ser Thr Pro Thr Leu Leu Glu Ser
 3715 3720 3725
 Ile Gln His Val Phe Ile Lys Lys Val Ala Val Asn Ser Gly Gly Lys
 3730 3735 3740
 His Cys Leu Ala Leu Ser Ser Glu Gly Glu Val Tyr Ser Trp Gly Glu
 3745 3750 3755 3760
 Ala Glu Asp Gly Lys Leu Gly His Gly Asn Arg Ser Pro Cys Asp Arg
 3765 3770 3775
 Pro Arg Val Ile Glu Ser Leu Arg Gly Ile Glu Val Val Asp Val Ala
 3780 3785 3790
 Ala Gly Gly Ala His Ser Ala Cys Val Thr Ala Ala Gly Asp Leu Tyr
 3795 3800 3805
 Thr Trp Gly Lys Gly Arg Tyr Gly Arg Leu Gly His Ser Asp Ser Glu
 3810 3815 3820
 Asp Gln Leu Lys Pro Lys Leu Val Glu Ala Leu Gln Gly His Arg Val
 3825 3830 3835 3840
 Val Asp Ile Ala Cys Gly Ser Gly Asp Ala Gln Thr Leu Cys Leu Thr
 3845 3850 3855
 Asp Asp Asp Thr Val Trp Ser Trp Gly Asp Gly Asp Tyr Gly Lys Leu
 3860 3865 3870
 Gly Arg Gly Gly Ser Asp Gly Cys Lys Val Pro Met Lys Ile Asp Ser
 3875 3880 3885
 Leu Thr Gly Leu Gly Val Val Lys Val Glu Cys Gly Ser Gln Phe Ser
 3890 3895 3900
 Val Ala Leu Thr Lys Ser Gly Ala Val Tyr Thr Trp Gly Lys Gly Asp
 3905 3910 3915 3920
 Tyr His Arg Leu Gly His Gly Ser Asp Asp His Val Arg Arg Pro Arg
 3925 3930 3935
 Gln Val Gln Gly Leu Gln Gly Lys Lys Val Ile Ala Ile Ala Thr Gly
 3940 3945 3950
 Ser Leu His Cys Val Cys Cys Thr Glu Asp Gly Glu Val Tyr Thr Trp
 3955 3960 3965
 Gly Asp Asn Asp Glu Gly Gln Leu Gly Asp Gly Thr Thr Asn Ala Ile
 3970 3975 3980
 Gln Arg Pro Arg Leu Val Ala Ala Leu Gln Gly Lys Lys Val Asn Arg
 3985 3990 3995 4000
 Val Ala Cys Gly Ser Ala His Thr Leu Ala Trp Ser Thr Ser Lys Pro
 4005 4010 4015
 Ala Ser Ala Gly Lys Leu Pro Ala Gln Val Pro Met Glu Tyr Asn His
 4020 4025 4030
 Leu Gln Glu Ile Pro Ile Ile Ala Leu Arg Asn Arg Leu Leu Leu Leu
 4035 4040 4045
 His His Leu Ser Glu Leu Phe Cys Pro Cys Ile Pro Met Phe Asp Leu
 4050 4055 4060
 Glu Gly Ser Leu Asp Glu Thr Gly Leu Gly Pro Ser Val Gly Phe Asp
 4065 4070 4075 4080
 Thr Leu Arg Gly Ile Leu Ile Ser Gln Gly Lys Glu Ala Ala Phe Arg
 4085 4090 4095
 Lys Val Val Gln Ala Thr Met Val Arg Asp Arg Gln His Gly Pro Val
 4100 4105 4110

Val Glu Leu Asn Arg Ile Gln Val Lys Arg Ser Arg Ser Lys Gly Gly
 4115 4120 4125
 Leu Ala Gly Pro Asp Gly Thr Lys Ser Val Phe Gly Gln Met Cys Ala
 4130 4135 4140
 Lys Met Ser Ser Phe Gly Pro Asp Ser Leu Leu Leu Pro His Arg Val
 4145 4150 4155 4160
 Trp Lys Val Lys Phe Val Gly Glu Ser Val Asp Asp Cys Gly Gly Gly
 4165 4170 4175
 Tyr Ser Glu Ser Ile Ala Glu Ile Cys Glu Glu Leu Gln Asn Gly Leu
 4180 4185 4190
 Thr Pro Leu Leu Ile Val Thr Pro Asn Gly Arg Asp Glu Ser Gly Ala
 4195 4200 4205
 Asn Arg Asp Cys Tyr Leu Leu Ser Pro Ala Ala Arg Ala Pro Val His
 4210 4215 4220
 Ser Ser Met Phe Arg Phe Leu Gly Val Leu Leu Gly Ile Ala Ile Arg
 4225 4230 4235 4240
 Thr Gly Ser Pro Leu Ser Leu Asn Pro Cys Arg Ala Leu Ser Gly Ser
 4245 4250 4255
 Ser Trp Leu Gly *
 4260

<210> 1356
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1356
 Met Ser Lys Val Lys Pro Leu His Gly Ala Pro Ala Pro Leu Leu Val
 1 5 10 15
 Ser Leu Cys Leu Leu Ser Trp Cys Gly Leu Pro Gly Val Ile Val His
 20 25 30
 Val Thr Tyr Val Ser Pro Arg His Leu Ser Asn Thr Arg Ser Gly Leu
 35 40 45
 Glu Ser Ile His Gly Cys Asp Pro Met His Gly Ser Pro Val Gly *
 50 55 60 63

<210> 1357
 <211> 111
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(111)
 <223> Xaa = any amino acid or nothing

<400> 1357
 Met Ile Phe Asn Lys Ala Ala Asp Thr Leu Gly Asp Val Trp Ile Leu
 1 5 10 15
 Leu Ala Thr Leu Lys Val Leu Ser Leu Leu Trp Leu Leu Tyr Tyr Val
 20 25 30
 Ala Ser Thr Thr Arg Gln Pro His Ala Val Leu Tyr Gln Asp Pro His
 35 40 45
 Ala Gly Pro Leu Trp Val Arg Ser Ser Leu Val Leu Phe Gly Ser Cys

```

      50              55              60
Thr Phe Cys Leu Asn Ile Phe Arg Val Gly Tyr Asp Val Ser His Ile
 65              70              75              80
Arg Cys Lys Ser Gln Leu Asp Leu Val Phe Pro Val Ile Glu Met Val
      85              90              95
Phe Ile Gly Val Gln Thr Cys Val Leu Trp Lys His Cys Arg Xaa
      100              105              110 111

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<210> 1358
<211> 47
<212> PRT
<213> Homo sapiens

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      <400> 1358
Met Ala Leu Leu Ile Ser Thr Cys Ile Asn Lys Ala Val Leu Arg Phe
 1              5              10              15
Thr Leu Ser Ser Met Asn Asn Lys Ile Ile Leu Ser Trp Tyr Ser Phe
      20              25              30
Asn Val Ile Leu Ile Phe His Glu Asn Val Val Tyr Tyr Ile *
      35              40              45 46

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<210> 1359
<211> 73
<212> PRT
<213> Homo sapiens

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      <400> 1359
Met Phe Ser Pro Cys Gly Pro Ala Ser Leu Gly Leu Leu Phe Val Leu
 1              5              10              15
Cys Thr His Ser Gln Ala Leu Ala Phe Phe Trp Gly Pro Ser Ser Leu
      20              25              30
Ile Gly Ala Ser Gly Phe Leu Leu Gln Arg Thr Ser Leu Leu Arg His
      35              40              45
Val Phe Leu Gly Leu Val Tyr Ala Cys Trp Ala His Trp Leu Tyr Cys
      50              55              60
Ser Ser Arg Pro Val Thr Lys Glu *
      65              70              72

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<210> 1360
<211> 57
<212> PRT
<213> Homo sapiens

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```

      <400> 1360
Met Lys Thr Gly Ser Leu Leu Leu Thr Leu Trp Phe Ser Gln Thr Phe
 1              5              10              15
Ser Phe Asn Leu Phe Phe Ala Pro Pro His Ser Leu Leu Gln Ser Ser
      20              25              30
Ile Phe Phe Ser Val Ser Ser Ile Thr Thr Val His Pro Ile Leu Val
      35              40              45

```

Phe Phe Phe Ala Phe Phe Arg Thr *
 50 55 56

<210> 1361
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1361
 Met Phe Val Leu Phe Leu Ile Leu Val Leu Arg Asn His Phe Leu Val
 1 5 10 15
 Thr Ile Lys Tyr Gly Val Gly Cys Gly Phe Ile Ile Ser Val Cys Leu
 20 25 30
 Arg Ala Lys His Phe Asn Phe Asp Glu Ala Gln Phe Val Ser Phe Phe
 35 40 45
 Leu Cys Asp Ser Cys Phe Cys Leu Leu Arg Asn Leu Pro Thr Gln Arg
 50 55 60
 Leu Gln Arg Phe Phe Phe Cys Trp Phe Phe Leu Ile *
 65 70 75 76

<210> 1362
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1362
 Met Gln Asn Arg Thr Gly Leu Ile Leu Cys Ala Leu Ala Leu Leu Met
 1 5 10 15
 Gly Phe Leu Met Val Cys Leu Gly Ala Phe Phe Ile Ser Trp Gly Ser
 20 25 30
 Ile Phe Asp Cys Gln Gly Ser Leu Ile Ala Ala Tyr Leu Leu Pro
 35 40 45
 Leu Gly Phe Val Ile Leu Leu Ser Gly Ile Phe Trp Ser Asn Tyr Arg
 50 55 60
 Gln Val Thr Glu Ser Lys Gly Val Leu Arg His Met Leu Arg Gln His
 65 70 75 80
 Leu Ala His Gly Ala Leu Pro Val Ala Thr Val Asp Arg Ala Ala Leu
 85 90 95
 Leu Lys Ile Met Cys Lys Gln Leu Leu *
 100 105

<210> 1363
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1363
 Met Ala Trp Lys Pro Leu Gly Arg Gln Ala Val Leu Arg Glu Thr Pro
 1 5 10 15
 Leu Ala Thr Leu Cys Ile Asp Arg Arg Gln Val Ser Ser Ser Leu Val

```

          20          25          30
Gln Glu Gly Phe His Ser Lys Ser Cys His Cys Leu Gly Asp Ser Phe
      35          40          45
Arg Glu Lys Asn Gln Val Val Gly *
      50          55 56

```

<210> 1364
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

    <400> 1364
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1          5          10          15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
      20          25          30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
      35          40          45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
      50          55          60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
      65          70          74

```

<210> 1365
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

    <400> 1365
Met Lys Leu Gln Val Phe Ala Val Asn Ile Thr Ala Leu Lys Ala Ala
 1          5          10          15
Arg Leu Glu Leu Phe Val Leu Pro Gly Gly Phe Ile Val Phe Leu Ala
      20          25          30
Ser Glu Leu Lys Leu Gln Thr Ser Leu Glu Ser Val Ala Pro His Lys
      35          40          45
Asp Ser Met Ser Leu Lys Ser Glu His *
      50          55          57

```

<210> 1366
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

    <400> 1366
Met His Cys Ser Phe Ile Ser Ala Phe Leu Leu Pro Val Phe Leu Ser
 1          5          10          15
Leu Thr Val Ser Ala Ser Ile Phe Val Ser Leu His Ser Phe Pro Leu
      20          25          30
Ser Leu Ser Tyr Phe Ser Phe Leu Gly Ser Phe Phe Leu Ser Val Cys
      35          40          45

```

Leu Asp Leu Tyr Ser Ser Leu Phe Phe *
 50 55 57

<210> 1367
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1367
 Met Met Gly Arg Ile Phe Ala Ala Leu Ser Leu Ile Lys Leu Met Met
 1 5 10 15
 Tyr Ser Leu Phe Pro Val Ile Glu Ser Ser Leu Cys His Leu Glu Val
 20 25 30
 Trp Ala Trp Arg His Ile Trp Pro Thr Ala Gly Arg Gly Val Pro *
 35 40 45 47

<210> 1368
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1368
 Met Gly Arg Arg Lys Ser Phe Phe Phe Leu Phe Leu Glu Cys Arg Gln
 1 5 10 15
 Lys Gly Leu His Ile Pro Leu Cys Thr Cys Ser His Ala Pro Arg Pro
 20 25 30
 Pro Leu Ala Ala Pro Ser Ala Leu Ile Leu Pro Pro Glu Ile Ser His
 35 40 45
 Thr Ser Arg Gly Ile Leu Leu Ser His Gly Leu Phe Pro Thr Ala Thr
 50 55 60
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Thr Val Thr
 65 70 75 80
 Met Pro Leu Phe Phe Pro Ser His Ala Ser His Ser Pro Ser Thr *
 85 90 95

<210> 1369
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1369
 Met Trp Asp His Phe Ile Leu Ser Arg Val Leu Phe Cys Leu Phe Val
 1 5 10 15
 Phe His Ser Arg Val Leu Lys Asp His Met Ala Ser Asn Ala Tyr Lys
 20 25 30
 Ser Ala Leu Phe Phe Thr Val Arg Tyr Leu Glu Thr Lys Gln Phe Leu
 35 40 45
 Leu Arg Cys Cys Cys Trp Pro Asp Ala Val Ala His Ala Cys Asn Thr
 50 55 60
 Ser Thr Leu Arg Gly Gln Gly Arg His Ile Thr *

65

70

75

<210> 1370
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1370
 Met Cys Ser Cys Leu His Thr Leu Gln Arg Arg Phe Leu His Phe Val
 1 5 10 15
 Ser Ile Ala Leu Ser Lys Ile Trp Gln Asn Asn Ala Phe His Leu Gln
 20 25 30
 Val Glu Val Ser Trp Leu Ser Thr Phe Val Asp Lys Val Ile Val Met
 35 40 45
 Arg Leu Ile Ser Ser Lys His Phe Thr Asp Thr Met Asn Asp Arg Val
 50 55 60
 His Ser Phe Leu Asn Asp Ile Gly Phe Val Cys Leu Leu Ser *
 65 70 75 78

<210> 1371
 <211> 227
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(227)
 <223> Xaa = any amino acid or nothing

<400> 1371
 Met Leu Tyr Phe Gln Leu Val Ile Met Ala Gly Thr Val Leu Leu Ala
 1 5 10 15
 Tyr Tyr Phe Glu Cys Thr Asp Thr Phe Gln Val His Ile Gln Gly Phe
 20 25 30
 Phe Cys Gln Asp Gly Asp Leu Met Lys Pro Tyr Pro Gly Thr Glu Glu
 35 40 45
 Glu Ser Phe Ile Thr Pro Leu Val Leu Tyr Cys Val Leu Ala Ala Thr
 50 55 60
 Pro Thr Ala Ile Ile Phe Ile Gly Glu Ile Ser Met Tyr Phe Ile Lys
 65 70 75 80
 Ser Thr Arg Glu Ser Leu Ile Ala Gln Glu Lys Thr Ile Leu Thr Gly
 85 90 95
 Glu Cys Cys Tyr Leu Asn Pro Leu Leu Arg Arg Ile Ile Arg Phe Thr
 100 105 110
 Gly Val Phe Ala Phe Gly Leu Phe Ala Thr Asp Ile Phe Val Asn Ala
 115 120 125
 Gly Gln Val Val Thr Gly His Leu Thr Pro Tyr Phe Leu Thr Val Cys
 130 135 140
 Lys Pro Asn Tyr Thr Ser Ala Asp Cys Gln Ala His His Gln Phe Ile
 145 150 155 160
 Asn Asn Gly Asn Ile Cys Thr Gly Asp Leu Gly Ser Asp Arg Lys Gly
 165 170 175
 Ser Glu Ile Leu Ser Leu Gln Thr Arg Cys Ser Glu His Leu Leu Arg
 180 185 190

Leu Ile Trp Pro Arg Cys Ile Phe Thr Arg His Asn Gln Gly Arg Gly
 195 200 205
 Gly Ser Ser Met Gly Pro Ser Arg Trp Leu Cys Leu Gly Thr Phe Leu
 210 215 220
 His Xaa Leu
 225 227

<210> 1372
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 1372
 Met Phe Leu Ser Leu Ser Leu Thr Leu Cys Leu Cys Phe Ser Phe Phe
 1 5 10 15
 Cys Leu Tyr Leu Ser Leu Ser Leu Tyr Leu Arg Ser Phe Phe Cys Leu
 20 25 30
 Pro Phe His Val Ser Val Phe Leu Cys Leu Phe Pro Ser Val Leu Phe
 35 40 45
 Leu Ser Val Ala Leu Gly Ser Pro Glu Asn His Ile Ser Trp Arg Lys
 50 55 60
 Val Gly Glu Glu Leu Lys Leu Ala Ser His Arg Asn Phe Cys Ser Leu
 65 70 75 80
 Ile Gln Met Met Arg Ser Asn Lys Pro Ser Pro Ser Arg Gln Arg Gly
 85 90 95
 Trp Ala *
 98

<210> 1373
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1373
 Met Leu His Thr Pro Gln Thr Cys Arg Pro Gly Leu Cys Val Leu Ala
 1 5 10 15
 Ser Arg Pro Val Leu Tyr Thr Leu Cys Leu Leu Ile Pro Val Leu Cys
 20 25 30
 Gly Asp Thr Phe Trp Ala Ser Trp Ser Leu Leu Thr Lys Ala Thr Pro
 35 40 45
 Ser Ser Leu Leu Cys Leu Ser Asp Lys Ser Ile Pro Ser Leu Ile Ser
 50 55 60
 Lys Gly Asp Ser *
 65 68

<210> 1374
 <211> 296
 <212> PRT
 <213> Homo sapiens

<400> 1374

```

Met Arg Ser Lys Ile Met Ile His Ile His Ile Phe Leu Leu Ala Ser
 1           5           10           15
Phe Arg Phe Lys Glu His Val Gln Asn Asn Leu Pro Arg Asp Leu Leu
      20           25           30
Thr Gly Glu Gln Phe Ile Gln Leu Arg Arg Glu Leu Ala Ser Val Asn
      35           40           45
Gly His Ser Gly Asp Asp Gly Pro Pro Gly Asp Asp Leu Pro Ser Gly
      50           55           60
Ile Glu Asp Ile Thr Asp Pro Ala Lys Leu Ile Thr Glu Ile Glu Asn
      65           70           75           80
Met Arg His Arg Ile Ile Glu Ile His Gln Glu Met Phe Asn Tyr Asn
      85           90           95
Glu His Glu Val Ser Lys Arg Trp Thr Phe Glu Glu Gly Ile Lys Arg
      100           105           110
Pro Tyr Phe His Val Lys Pro Leu Glu Lys Ala Gln Leu Lys Asn Trp
      115           120           125
Lys Glu Tyr Leu Glu Phe Glu Ile Glu Asn Gly Thr His Glu Arg Val
      130           135           140
Val Val Leu Phe Glu Arg Cys Val Ile Ser Cys Ala Leu Tyr Glu Glu
      145           150           155           160
Phe Trp Ile Lys Tyr Ala Lys Tyr Met Glu Asn His Ser Ile Glu Gly
      165           170           175
Val Arg His Val Phe Ser Arg Ala Cys Thr Ile His Leu Pro Lys Lys
      180           185           190
Pro Met Val His Met Leu Trp Ala Ala Phe Glu Glu Gln Gln Gly Asn
      195           200           205
Ile Asn Glu Ala Arg Asn Ile Leu Lys Thr Phe Glu Glu Cys Val Leu
      210           215           220
Gly Leu Ala Met Val Arg Leu Arg Arg Val Ser Leu Glu Arg Arg His
      225           230           235           240
Gly Asn Leu Glu Glu Ala Glu His Leu Leu Gln Asp Ala Ile Lys Asn
      245           250           255
Ala Lys Ser Asn Asn Glu Ser Ser Phe Tyr Ala Val Lys Leu Ala Arg
      260           265           270
His Leu Phe Lys Ile Gln Lys Asn Leu Pro Lys Ser Arg Lys Val Leu
      275           280           285
Leu Glu Ala Ile Glu Arg Asp Lys
      290           295 296

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<210> 1375

<211> 75

<212> PRT

<213> Homo sapiens

<400> 1375

```

Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
 1           5           10           15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
      20           25           30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
      35           40           45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
      50           55           60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu *
      65           70           74

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<210> 1376
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1376
 Met Cys Tyr Glu Trp Val Ile Thr Thr Val Gly Ser Trp Ala Leu Leu
 1 5 10 15
 Cys Gln Arg Thr Leu Trp Lys Pro His Arg Thr Tyr Gln Lys Leu Thr
 20 25 30
 Leu Asn Ser Cys Pro Thr Pro Ile Val Glu Gly Gly Leu Glu Ser Phe
 35 40 45
 Pro Ser Pro Asn Phe Pro Ser Cys Ile Ser Trp Ser *
 50 55 60

<210> 1377
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1377
 Met Trp Val Trp Val Thr Ala Ala His Leu Leu Cys Ser Leu Ala Ala
 1 5 10 15
 Ser Phe Val Lys Lys Lys Ser Leu Gly Lys Leu Arg Val Asp Val Cys
 20 25 30
 Arg Ser Pro Pro Pro Glu Gly Ser Arg Thr Gln Thr Ser Ser Ser Leu
 35 40 45
 Phe Tyr Arg Gly Gly Asn Gly Ala Ser Tyr Ala Asn Tyr Ile Leu His
 50 55 60
 His Thr Met Ala Leu Glu Gly Gln Arg Ser His Trp Ala Pro Cys Val
 65 70 75 80
 Ser Cys Pro Ala Gln Gly Leu Ala Leu Arg Arg Gly Cys Thr Thr Phe
 85 90 95
 Leu His Lys Asn Lys Gly Gly Thr Glu Ala Val Thr Val *
 100 105 109

<210> 1378
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1378
 Met Phe Ala Leu Gln Lys Met Arg Leu Cys Val Leu Trp Arg Val Leu
 1 5 10 15
 Glu Glu Gly Gly Ile Thr Arg Phe Gly Asp Ser His Ser Asp Ser Leu
 20 25 30
 Leu Phe Ser Val Thr Phe Arg Ile His Arg Asp Met Phe Cys *
 35 40 45 46

<210> 1379
 <211> 140
 <212> PRT
 <213> Homo sapiens

<400> 1379
 Met Arg His Pro Ser Pro Trp Pro Phe Leu Phe Phe Cys Phe Val Pro
 1 5 10 15
 Ala Thr Leu Arg Ser Phe Pro Ser Gly Leu Val Trp Pro Gly Cys Trp
 20 25 30
 Trp Glu Pro Arg Ala Ser Pro Ser Ser Leu Ala Pro Gly Met Lys Ser
 35 40 45
 Gln Leu Trp Ala Ala Ala Trp Arg Pro Gly Thr Ser Leu Gln Gly Met
 50 55 60
 Ala Gly Ile Leu Arg Gln Ala Ala Glu Ala Gly Pro Ala Gly Val Ala
 65 70 75 80
 Leu Ile Leu Ile Lys Gly Thr Gly Asn Glu Glu Pro Leu Gly Pro Leu
 85 90 95
 Pro Ser Arg Cys Leu Cys Pro Pro Pro Glu Glu Pro Arg Phe His Trp
 100 105 110
 Ala Leu Gly Lys Glu Pro Thr Gly Pro Gly Arg Pro Gln Pro Val Gln
 115 120 125
 His His Ile Glu Gly Pro His Pro Val Gly Phe Gly
 130 135 140

<210> 1380
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1380
 Met Gln Glu Pro Leu Thr Phe Leu Gln Leu Leu Arg Trp Gln Leu Phe
 1 5 10 15
 Pro Leu Pro Asp Ser Pro Thr Phe Ser Ala Phe Ile Leu Val Gly Leu
 20 25 30
 Cys Arg Met Leu Phe Ala Gly Arg Ile Ile Ser Gly Leu Thr Arg Val
 35 40 45
 Ile *
 49

<210> 1381
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1381
 Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1 5 10 15
 Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
 20 25 30

Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
 35 40 45
 Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
 50 55 60
 Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
 65 70 75 77

<210> 1382
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1382
 Met Leu Thr Thr Leu Leu Leu Leu His Lys Arg Ile Phe Arg Gly
 1 5 10 15
 Asn Phe His Ile Leu His Phe His Ile Cys Ile Gln Ile Lys Lys Gln
 20 25 30
 Ile Pro Ile Leu Glu Asn Asp Leu Phe Lys Met Tyr Thr Val Ser Asn
 35 40 45
 Lys Ala Lys Thr Arg Thr Trp Ser *
 50 55 56

<210> 1383
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1383
 Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1 5 10 15
 Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
 20 25 30
 Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
 35 40 45
 Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
 50 55 60 63

<210> 1384
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 1384
 Met Leu Ser Phe Val Pro Leu Leu Ser Ser Trp Leu Gly Thr Trp Ile
 1 5 10 15
 Thr Asp Arg Gly Ala Ala Gly Ser Cys Gln Ala Glu Ala Pro Arg Leu
 20 25 30
 Ala Gly Glu Thr Ala Gly Gln Arg Val Trp Glu Arg Gly Met Gln Arg
 35 40 45
 Ala Ala Ala Val Gly Lys Ile Leu Asp Pro Lys Gly His Thr Ala Ser

50
Pro His *
65 66

55

60

<210> 1385
<211> 50
<212> PRT
<213> Homo sapiens

<400> 1385
Met Leu Val Leu Phe Val Ala Thr Trp Ser Asp Leu Gly Leu Cys Lys
1 5 10 15
Lys Arg Pro Lys Pro Gly Gly Trp Asn Thr Gly Gly Cys Arg Tyr Pro
20 25 30
Gly Leu Ala Cys Pro Leu Gly Arg Pro Pro Gly Gln Trp Gly Ala Thr
35 40 45
Val *
49

<210> 1386
<211> 123
<212> PRT
<213> Homo sapiens

<400> 1386
Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
1 5 10 15
Tyr Ser Arg Gly Pro Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val
20 25 30
Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly Asp Leu Leu
35 40 45
Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn
50 55 60
Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu
65 70 75 80
Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro
85 90 95
Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser Lys Asp Val
100 105 110
Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe
115 120 123

<210> 1387
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1387
Met Pro Arg Leu Phe Ser Pro Leu Ile Leu Leu His Thr Leu Ser Leu
1 5 10 15

Lys Ser His Glu Thr Phe Gln Trp Ser Gln Phe Leu Tyr Gln Asn Thr
 20 25 30
 Arg Asp Ala Cys Phe Thr Trp Thr Tyr Ile Phe Pro Arg Ile Thr Trp
 35 40 45
 Ile Asn Glu Trp Cys Cys Phe Pro Val Val Gly Glu Lys Leu Gly Thr
 50 55 60 64
 *

<210> 1388
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1388
 Met Gly Leu Leu Asn Lys Tyr Ala Ser Val Ile Ile Tyr Leu Tyr Phe
 1 5 10 15
 Ser Leu Val Lys Ser Glu Ser Leu Phe His Leu Met Tyr Leu Pro Ser
 20 25 30
 Leu Phe Ile Gln Phe Phe Leu Gly Ile Phe Ser Leu Lys Thr His Cys
 35 40 45
 Cys Thr Ser Lys Phe Asp Ser *
 50 55

<210> 1389
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1389
 Met Arg Arg Arg Ala Leu Lys His Trp Val Ala Leu Cys Leu Thr Trp
 1 5 10 15
 Thr Ala Gly Glu Ser Thr Gly Pro Trp Pro Ser Pro Glu Pro Ser Val
 20 25 30
 Arg Ala Lys Glu Ala Asp Pro Ser Gly Arg Arg Ser Leu Gly Ser Pro
 35 40 45
 Gly Leu Glu Cys Gly Pro Arg Leu Thr Arg Gly Ser Gly Arg Gln Cys
 50 55 60
 Asp Gly Pro Arg Gly Ile Cys His Ala Leu Gly *
 65 70 75

<210> 1390
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1390
 Met Ala Ala Ser Pro Ala Arg Pro Ala Val Leu Ala Leu Thr Gly Leu
 1 5 10 15
 Ala Leu Leu Leu Leu Cys Trp Gly Pro Gly Gly Ile Ser Gly Asn

```

      20      25      30
Lys Leu Lys Leu Met Leu Gln Lys Arg Glu Ala Pro Val Pro Thr Lys
      35      40      45
Thr Lys Val Ala Val Asp Glu Asn Lys Ala Lys Glu Phe Leu Gly Ser
      50      55      60
Leu Lys Arg Gln Lys Arg Gln Leu Trp Asp Arg Thr Arg Pro Glu Val
      65      70      75      80
Gln Gln Trp Tyr Gln Gln Phe Leu Tyr Met Gly Phe Asp Glu Ala Lys
      85      90      95
Phe Glu Asp Asp Ile Thr Tyr Trp Leu Asn Arg Asp Arg Asn Gly His
      100      105      110
Glu Tyr Tyr Gly Asp Tyr Tyr Gln Arg His Tyr Asp Glu Asp Ser Ala
      115      120      125
Ile Gly Pro Arg Ser Pro Tyr Gly Phe Arg His Gly Ala Ser Val Asn
      130      135      140
Tyr Asp Asp Tyr *
      145      148

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<210> 1391
<211> 125
<212> PRT
<213> Homo sapiens

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      <400> 1391
Met Val Met Gly Trp His Trp Pro Gln Gly Leu Gly Leu Ser Leu Ser
      1      5      10      15
Leu Cys Pro Ser Asp Leu Asp Gly Trp Val Ser Arg Glu Val Pro Leu
      20      25      30
Leu Asp Arg Pro Gln Ala Leu Pro Pro Cys Val Gln Ile Leu Ser Ala
      35      40      45
Pro Ala Ser Thr Ser Cys Pro Ser Ala Leu Ser Pro Trp His Asp Pro
      50      55      60
Gly Leu Pro Val Thr Ser Gln Asn His Phe Ala Trp Phe Pro Leu Gly
      65      70      75      80
Ser Lys Ala Cys Leu Gly Pro Ser Ile Asp Arg Glu Ala Val Lys Glu
      85      90      95
Ile Asn Ala Glu Glu Gly Val Arg Arg Gln Thr Gln Gly Pro Ile Lys
      100      105      110
Val Arg Lys Gln Ala Gly Cys Gly Gly Ser Cys Leu *
      115      120      124

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<210> 1392
<211> 56
<212> PRT
<213> Homo sapiens

```

```

      <400> 1392
Met Ile Ile Gln Ile Cys Thr Ile Ser Arg Ile Glu Phe Ile Cys Leu
      1      5      10      15
Cys Val Cys Val Phe Phe Arg Val Ile Trp Leu Pro Val Glu Phe Tyr
      20      25      30
Leu Glu Thr Lys Ile Leu Lys Val Val Phe Val Ile Val Phe Val Pro
      35      40      45

```

Ile Ile Leu Pro Leu His Pro *
 50 55

<210> 1393
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1393
 Met Glu Ala Trp Lys Ala Leu Ile Gly Leu Phe Pro Leu Arg Ser Ser
 1 5 10 15
 Ala Ser Pro Phe Thr Tyr His Cys Trp Glu Pro Ala Gln Pro Ala His
 20 25 30
 Gln Glu Phe His Ser Thr Ile Ala Leu Arg Gly Arg Gly Gly Lys Pro
 35 40 45
 Gln Glu Glu Ser Ser Pro *
 50 54

<210> 1394
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1394
 Met Ser Leu Asn Pro Glu Phe Leu Trp Leu Lys Trp Phe Ser Leu Leu
 1 5 10 15
 Leu Arg Gly Arg Arg Asn Ser Cys Leu Ile Ala Leu Lys Gly Tyr His
 20 25 30
 Ser Val Met Ile Phe His Leu Pro Leu Ile Pro Ser Ser Val Thr Ser
 35 40 45
 Cys His *
 50

<210> 1395
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1395
 Met Pro Cys Phe Met Pro Asn Pro Gly Ala Val Leu Gly Leu Pro Pro
 1 5 10 15
 Trp Leu Leu Ser Thr Gln Arg Leu Thr His Thr Arg Ala Tyr Leu Asn
 20 25 30
 Trp Leu Ala Ser Asp Arg Trp Met Arg Arg His Trp Arg Thr Gly Glu
 35 40 45
 Ser Gln Val Glu Arg Ser Ser Arg Pro Trp Trp Glu Thr Gln His Leu
 50 55 60
 Ser Pro Ala Ser Leu Gly Arg Arg Pro Ala Pro Gly Leu Gln Glu His
 65 70 75 80
 Phe Leu Asp Thr Asp Gly Lys Val Ala Asp Ser Gly Leu Gln Met Gly

85 90 95
 Phe Gly Leu Leu Ser Leu Pro Ser Ile
 100 105

<210> 1396
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1396
 Met Leu Cys Asn Leu Ala Leu Lys Leu Leu Asn Cys Val Ser Ala Trp
 1 5 10 15
 Asn Met Asn Ile Arg Leu Lys Cys Leu Leu Lys Pro Lys Asn Val Ser
 20 25 30
 Lys Val Cys Ser Arg Gly Leu Tyr Phe Ile Tyr Val Met Asp Ser Leu
 35 40 45 48
 *

<210> 1397
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1397
 Met Leu Ser Trp Val Phe Pro Gly Ser Val Phe Gly Leu Cys Leu Ser
 1 5 10 15
 Val Trp Val Phe Trp His Gln Ala Ser Leu Gly Arg Ala Ser Gly Cys
 20 25 30
 Ala Pro Ala Leu Arg Val Gly Leu Ile Pro Gly Cys Arg Gly Leu Arg
 35 40 45
 Ala Glu Leu Phe His Leu Glu Asp Lys Asp Gly Ser Ser Gly Leu Gly
 50 55 60
 Gly Gly Gly Gly Ala Gly His Asp Leu Ile Leu Arg Arg Ala Trp Cys
 65 70 75 80
 Trp Gly Leu Thr Asp Asp Gly Glu Ala Arg Val Gln Ala Leu Gly Met
 85 90 95
 Thr Pro Gly Ile Ala Phe Ser *
 100 103

<210> 1398
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1398
 Met Lys Pro Val Trp Val Ala Thr Leu Leu Trp Met Leu Leu Val
 1 5 10 15
 Pro Arg Leu Gly Ala Ala Arg Lys Gly Ser Pro Glu Glu Ala Ser Phe
 20 25 30

Tyr Tyr Gly Thr Phe Pro Leu Gly Gly His His Ser Ala Glu Gly Thr
 35 40 45
 Ala Arg Gln Pro Leu Pro Ile Leu Pro Val Leu Ala Pro Ala Pro Ala
 50 55 60
 His Arg His Pro Ser Arg Ala Gly Glu Gln Glu Gly Asn Arg Ile Leu
 65 70 75 80
 Gln *
 81

<210> 1399
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1399
 Met Gly Ala Val Leu Leu Val Cys Leu Gln Thr Ser Ile Ala Ala Arg
 1 5 10 15
 Asp Asp Leu Lys Asp Ala Val Asp Ser Gly Leu Leu Leu Ala Asn Ser
 20 25 30
 Leu Ser His Phe Val Pro Leu Val Val Arg Asn Tyr Leu Val His Cys
 35 40 45
 Asn Leu Leu Gln Thr Leu Lys Phe Leu Leu Gly Asn Cys Thr Ala Gly
 50 55 60
 Lys Ala Ser *
 65 67

<210> 1400
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1400
 Met Ala Val Ala Phe Val Leu Ser Leu Gly Val Ala Ala Leu Tyr Lys
 1 5 10 15
 Phe Arg Val Ala Asp Gln Arg Lys Lys Ala Tyr Ala Asp Phe Tyr Arg
 20 25 30
 Asn Tyr Asp Val Met Lys Asp Phe Glu Glu Met Arg Lys Ala Gly Ile
 35 40 45
 Phe Gln Ser Val Lys *
 50 53

<210> 1401
 <211> 232
 <212> PRT
 <213> Homo sapiens

<400> 1401
 Met Leu Phe Ala Phe Ile Ser Leu Leu Val Met Leu Pro Thr Trp Trp
 1 5 10 15
 Ile Val Ser Ser Trp Leu Val Trp Gly Val Ile Leu Phe Val Tyr Leu

```

      20      25      30
Val Ile Arg Ala Leu Arg Leu Trp Arg Thr Ala Lys Leu Gln Val Thr
      35      40      45
Leu Lys Lys Tyr Ser Val His Leu Glu Asp Met Ala Thr Asn Ser Arg
      50      55      60
Ala Phe Thr Asn Leu Val Arg Lys Ala Leu Arg Leu Ile Gln Glu Thr
      65      70      75      80
Glu Val Ile Ser Arg Gly Phe Thr Leu Leu Leu Asp Arg Val Ser Ala
      85      90      95
Ala Cys Pro Phe Asn Lys Ala Gly Gln His Pro Ser Gln His Leu Ile
      100      105      110
Gly Leu Arg Lys Ala Val Tyr Arg Thr Leu Arg Ala Ser Phe Gln Ala
      115      120      125
Ala Arg Leu Ala Thr Leu Tyr Met Leu Lys Asn Tyr Pro Leu Asn Ser
      130      135      140
Glu Ser Asp Asn Val Thr Asn Tyr Ile Cys Val Val Pro Phe Lys Glu
      145      150      155      160
Leu Gly Leu Gly Leu Ser Glu Glu Gln Ile Ser Glu Glu Glu Ala His
      165      170      175
Lys Leu Tyr Arg Trp Leu Gln Pro Ala Cys Ile Glu Gly Phe Val Pro
      180      185      190
Thr Leu Gly Gly Thr Glu Phe Arg Val Leu Gln Thr Val Ser Pro Ile
      195      200      205
Thr Phe Tyr Ser Gln Phe Thr Ser Trp Ala Leu Thr Tyr Ser Ser Thr
      210      215      220
Ser Ala Ser Ser Tyr Leu Ile *
      225      230      231

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<210> 1402

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1402

```

Met Ala Pro Ala Arg Pro Trp Trp Leu Thr Pro Val Ile Pro Ala Leu
  1      5      10      15
Trp Glu Ala Glu Glu Asp Gly Ser Arg Gly Gln Glu Phe Lys Thr Ser
      20      25      30
Leu Ala Ser Met Val Lys Pro Arg Leu Tyr Tyr Lys Tyr Lys Asn *
      35      40      45      47

```

<210> 1403

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1403

```

Met Leu Trp Arg Leu Ile Ile Ile Leu Cys Glu Ala Leu Gln Arg Lys
  1      5      10      15
Ser Arg Leu Leu Ala Asp Cys Asp His Phe Ser Phe Pro Asn Arg Tyr
      20      25      30
Glu Arg Lys Leu Leu Leu Asp Phe Thr Val Arg Ile Trp Ile Gln Thr
      35      40      45

```

Tyr Cys Pro His *
50 52

<210> 1404
<211> 90
<212> PRT
<213> Homo sapiens

<400> 1404
Met Arg Val Phe Cys Val Gly Leu Leu Leu Phe Ser Val Thr Trp Ala
1 5 10 15
Ala Pro Thr Phe Gln Pro Gln Thr Glu Lys Thr Lys Gln Ser Cys Val
20 25 30
Glu Glu Gln Arg Gln Glu Glu Lys Asn Lys Asp Asn Ile Gly Phe His
35 40 45
His Leu Gly Lys Arg Ile Asn Gln Glu Leu Ser Ser Lys Glu Asn Ile
50 55 60
Val Gln Glu Arg Lys Lys Asp Leu Ser Leu Ser Glu Ala Ser Glu Asn
65 70 75 80
Lys Gly Ser Ser Lys Ser Gln Asn Tyr Phe
85 90

<210> 1405
<211> 477
<212> PRT
<213> Homo sapiens

<400> 1405
Met Ala Gly Arg Gly Gly Ser Ala Leu Leu Ala Leu Cys Gly Ala Leu
1 5 10 15
Ala Ala Cys Gly Trp Leu Leu Gly Ala Glu Ala Gln Glu Pro Gly Ala
20 25 30
Pro Ala Ala Gly Met Arg Arg Arg Arg Arg Leu Gln Gln Glu Asp Gly
35 40 45
Ile Ser Phe Glu Tyr His Arg Tyr Pro Glu Leu Arg Glu Ala Leu Val
50 55 60
Ser Val Trp Leu Gln Cys Thr Ala Ile Ser Arg Ile Tyr Thr Val Gly
65 70 75 80
Arg Ser Phe Glu Gly Arg Glu Leu Leu Val Ile Glu Leu Ser Asp Asn
85 90 95
Pro Gly Val His Glu Pro Gly Glu Pro Glu Phe Lys Tyr Ile Gly Asn
100 105 110
Met His Gly Asn Glu Ala Val Gly Arg Glu Leu Leu Ile Phe Leu Ala
115 120 125
Gln Tyr Leu Cys Asn Glu Tyr Gln Lys Gly Asn Glu Thr Ile Val Asn
130 135 140
Leu Ile His Ser Thr Arg Ile His Ile Met Pro Ser Leu Asn Pro Asp
145 150 155 160
Gly Phe Glu Lys Ala Ala Ser Gln Pro Gly Glu Leu Lys Asp Trp Phe
165 170 175
Val Gly Arg Ser Asn Ala Gln Gly Ile Asp Leu Asn Arg Asn Phe Pro
180 185 190
Asp Leu Asp Arg Ile Val Tyr Val Asn Glu Lys Glu Gly Gly Pro Asn

```

      195              200              205
Asn His Leu Leu Lys Asn Met Lys Lys Ile Val Asp Gln Asn Thr Lys
  210              215              220
Leu Ala Pro Glu Thr Lys Ala Val Ile His Trp Ile Met Asp Ile Pro
  225              230              235              240
Phe Val Leu Ser Ala Asn Leu His Gly Gly Asp Leu Val Ala Asn Tyr
      245              250              255
Pro Tyr Asp Glu Thr Arg Ser Gly Ser Ala His Glu Tyr Ser Ser Ser
      260              265              270
Pro Asp Asp Ala Ile Phe Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe
      275              280              285
Asn Pro Ala Met Ser Asp Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp
      290              295              300
Asp Asp Ser Ser Phe Val Asp Gly Thr Thr Asn Gly Gly Ala Trp Tyr
  305              310              315              320
Ser Val Pro Gly Gly Met Gln Asp Phe Asn Tyr Leu Ser Ser Asn Cys
      325              330              335
Phe Glu Ile Thr Val Glu Leu Ser Cys Glu Lys Phe Pro Pro Glu Glu
      340              345              350
Thr Leu Lys Thr Tyr Trp Glu Asp Asn Lys Asn Ser Leu Ile Ser Tyr
      355              360              365
Leu Glu Gln Ile His Arg Gly Val Lys Gly Phe Val Arg Asp Leu Gln
      370              375              380
Gly Asn Pro Ile Ala Asn Ala Thr Ile Ser Val Glu Gly Ile Asp His
  385              390              395              400
Asp Val Thr Ser Ala Lys Asp Gly Asp Tyr Trp Arg Leu Leu Ile Pro
      405              410              415
Gly Asn Tyr Lys Leu Thr Ala Ser Ala Pro Gly Tyr Leu Ala Ile Thr
      420              425              430
Lys Lys Val Ala Val Pro Tyr Ser Pro Ala Ala Gly Val Asp Phe Glu
      435              440              445
Leu Glu Ser Phe Ser Glu Arg Lys Glu Glu Glu Lys Glu Glu Leu Met
      450              455              460
Glu Trp Trp Lys Met Met Ser Glu Thr Leu Asn Phe *
  465              470              475 476

```

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<210> 1406
<211> 55
<212> PRT
<213> Homo sapiens

```

```

      <400> 1406
Met Phe Ile Gly Ile Trp Val Ser Leu Tyr Gln Val Leu Trp Leu Lys
  1              5              10              15
Glu Leu Leu Trp Gly His Tyr Ile Phe Trp Val Ser Arg Lys Met Phe
      20              25              30
Val Tyr Gly Gly Val Gly Gly Lys Thr Ala Asn Ile Cys Arg Lys Gly
      35              40              45
Arg Ile Ile Lys Lys Val *
  50              54

```

```

<210> 1407
<211> 66
<212> PRT

```

<213> Homo sapiens

<400> 1407

```

Met Leu Leu Gly Val Arg Ala Val Pro Leu Cys Ser Ala Trp Gln Gly
 1           5           10           15
Ala Val Gly Leu Val Ser Leu Thr Ile Ser Ile Cys Lys His Gly Leu
           20           25           30
Ser Phe Gln Gln Asn Leu Val Pro Gly Lys Ser Asn Val Pro Lys Ala
           35           40           45
Ser Asp Met Pro Arg Cys Pro Pro Val Asp Ala Ala Ala Asn Ser Arg
           50           55           60
Ser Met
65 66

```

<210> 1408

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1408

```

Met Leu Leu Lys Phe Leu Cys Glu Cys Met Pro Ser Leu Leu Leu Ser
 1           5           10           15
Glu Phe Leu Asp Ser Pro Arg Ser Gly Ile Asp Gly Ser Asn Gly Asn
           20           25           30
Ser Met Phe Asn Phe Val Lys Asn Cys His Phe Pro Thr Ala Ala Ala
           35           40           45
Pro Phe Pro Thr Pro Thr Ser Arg Val *
           50           55           57

```

<210> 1409

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1409

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1           5           10           15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
           20           25           30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
           35           40           45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
           50           55           60
Gln Gly Lys Gly Thr Pro Asp *
65           70 71

```

<210> 1410

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1410
 Met Arg Phe Leu Leu Leu Trp Phe Ile Leu Arg Gly Arg Gln Leu Val
 1 5 10 15
 Pro Leu Arg Pro Arg Arg Ser Pro Leu Pro Asp Thr Asn Ala Pro Leu
 20 25 30
 Pro Gly Leu Gly Gly Gly Asp Gly Ser Thr Gln Thr Pro Phe Ala Gln
 35 40 45
 Ser Arg Arg Leu *
 50 52

<210> 1411
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1411
 Met Ala Ser Gln Ser Met Cys Phe Leu Trp Leu Ala Pro Val Thr Trp
 1 5 10 15
 Cys Val Met Phe Ser Ser Arg Thr Cys Tyr Ser Pro Cys Gly Asn Phe
 20 25 30
 Ser Thr Ala Pro Gly Arg Val Ile Phe His Ser Trp Asp Arg Ala Gln
 35 40 45
 Phe Val Tyr Ser Phe Leu Ser Arg Trp Arg Leu Gly Leu Phe Pro Pro
 50 55 60
 Leu Ala Ser Val Asn Gly Asp Ala Val Ile Met Gly Val Pro Val Phe
 65 70 75 80
 Val *
 81

<210> 1412
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1412
 Met Phe Leu Leu Leu Phe Cys Leu Met Phe Asp Phe Thr Lys Val Phe
 1 5 10 15
 Phe Ile Leu Leu Leu His Ile Phe Cys Leu Ser Thr Cys Leu Phe Leu
 20 25 30
 Gly Leu His Ile Cys Ala Ser Phe His Ala Arg Ala Leu Leu Glu Thr
 35 40 45
 Ala Leu Ile Leu Leu Arg Met Lys Ile Ala Gly Phe Gln Val Ile Leu
 50 55 60
 Phe Pro Gln Asp Phe Val Leu *
 65 70 71

<210> 1413
 <211> 59
 <212> PRT

<213> Homo sapiens

<400> 1413

```

Met Met Thr Ile Lys Glu Phe Thr Leu Leu Leu Val Ser Leu Gln Phe
 1           5           10           15
Ser Thr Phe Pro Ser Lys Lys Phe Leu Leu Glu Thr His Phe Leu Lys
          20           25           30
Asn Ser Glu Asn Trp Leu Gly Val Val Ala His Ala Cys Ser Leu Ser
          35           40           45
Thr Leu Gly Trp Pro Arg Arg Arg Thr Ala *
      50           55           58

```

<210> 1414

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1414

```

Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr Thr Val Phe Met
 1           5           10           15
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Thr Leu Thr
          20           25           30
Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
          35           40           45
Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
          50           55           60
Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu *
      65           70           75           77

```

<210> 1415

<211> 171

<212> PRT

<213> Homo sapiens

<400> 1415

```

Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu
 1           5           10           15
Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe
          20           25           30
Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys
          35           40           45
Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu Leu Val
          50           55           60
Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val Arg Asn
          65           70           75           80
Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp Leu Tyr
          85           90           95
Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val Leu Ile
          100          105          110
Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala Leu Met
          115          120          125
Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly Leu Asn

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130 135 140
 Val Leu Asp Ala Asn Leu Trp Leu Glu Arg Arg Arg Leu Gly Phe Ser
 145 150 155 160
 Gly Trp Ser Asn Arg Phe Phe Pro Leu Pro *
 165 170

<210> 1416
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1416
 Met Leu Thr Arg Leu Val Leu Ser Ala His Leu Ser Ser Thr Thr Phe
 1 5 10 15
 Pro Pro Trp Thr His Ala Ala Ile Ser Trp Glu Leu Asp Asn Val Leu
 20 25 30
 Met Pro Ser Pro Arg Ile Trp Pro Gln Val Thr Pro Thr Ala Gly Gln
 35 40 45
 Asp Val His Ala Ile Val Thr Arg Thr Cys Glu Ser Val Leu Ser Ser
 50 55 60
 Val Val Tyr Thr His Gly Cys Gly Cys Val Arg Cys *
 65 70 75 76

<210> 1417
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 1417
 Met Glu Lys Ile Pro Glu Ile Gly Lys Phe Gly Glu Lys Ala Pro Pro
 1 5 10 15
 Ala Pro Ser His Val Trp Arg Pro Ala Ala Leu Phe Leu Thr Leu Leu
 20 25 30
 Cys Leu Leu Leu Leu Ile Gly Leu Gly Val Leu Ala Ser Met Phe His
 35 40 45
 Val Thr Leu Lys Ile Glu Met Lys Lys Met Asn Lys Leu Gln Asn Ile
 50 55 60
 Ser Glu Glu Leu Gln Arg Asn Ile Ser Leu Gln Leu Met Ser Asn Met
 65 70 75 80
 Asn Ile Ser Asn Lys Ile Arg Asn Leu Ser Thr Thr Leu Gln Thr Ile
 85 90 95
 Ala Thr Lys Leu Cys Arg Glu Leu Tyr Ser Lys Glu Gln Glu His Lys
 100 105 110
 Cys Lys Pro Cys Pro Arg Arg Trp Ile Trp His Lys Asp Ser Cys Tyr
 115 120 125
 Phe Leu Ser Asp Asp Val Gln Thr Trp Gln Glu Ser Lys Met Ala Cys
 130 135 140
 Ala Ala Gln Asn Ala Ser Leu Leu Lys Ile Asn Asn Lys Asn Ala Leu
 145 150 155 160
 Glu Phe Ile Lys Ser Gln Ser Arg Ser Tyr Asp Tyr Trp Leu Gly Leu
 165 170 175
 Ser Pro Glu Glu Asp Ser Thr Arg Gly Met Arg Val Asp Asn Ile Ile
 180 185 190

Asn Ser Ser Ala Trp Val Ile Arg Asn Ala Pro Asp Leu Asn Asn Met
 195 200 205
 Tyr Cys Gly Tyr Ile Asn Arg Leu Tyr Val Gln Tyr Tyr His Cys Thr
 210 215 220
 Tyr Lys Gln Arg Met Ile Cys Glu Lys Met Ala Asn Pro Val Gln Leu
 225 230 235 240
 Gly Ser Thr Tyr Phe Arg Glu Ala *
 245 248

<210> 1418
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1418
 Met Gly Leu Lys Asn Val Phe Leu Pro Val Phe Leu Pro Phe Leu Leu
 1 5 10 15
 Tyr Ser Glu Phe Leu Ser Leu Pro Pro Ser Leu Ser Ser Ser Leu Leu
 20 25 30
 Pro Phe Leu Pro Phe Ser Leu Pro Gly His Phe Ser Asn Leu His Gln
 35 40 45
 Arg Tyr Leu Lys Cys Trp Tyr Leu Arg Ile Ser Val Thr Pro Leu Ile
 50 55 60 64
 *

<210> 1419
 <211> 468
 <212> PRT
 <213> Homo sapiens

<400> 1419
 Met Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145 150 155 160
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln

```

      165      170      175
Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
      180      185      190
His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
      195      200      205
Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
      210      215      220
Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
      225      230      235
Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
      245      250      255
Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
      260      265      270
Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
      275      280      285
Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
      290      295      300
Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
      305      310      315
Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
      325      330      335
Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
      340      345      350
Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
      355      360      365
Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
      370      375      380
Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
      385      390      395
Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
      405      410      415
Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
      420      425      430
Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
      435      440      445
Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
      450      455      460
Ile Pro Lys *
      465      467

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<210> 1420

<211> 150

<212> PRT

<213> Homo sapiens

<400> 1420

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Met Ile Arg Cys Leu Ala Gln Pro Ala Ala Val Leu Ser Ser Leu Gly
  1      5      10      15
Leu Ala Gln Val Leu Gly Asp Ser Gly Arg Asp Glu Gln Val Leu Leu
      20      25      30
Arg Arg Ser Phe Arg Ala Glu Gly Cys Val Leu Cys Leu Cys Thr Trp
      35      40      45
Gly Thr Ala Val Pro Trp His Lys Val Glu Gly Ser Gly Gly Pro Cys
      50      55      60
Arg Ser Ala Ala Pro Leu Pro Ala Ser Ala Pro Phe Ser Ile Asp Gly
      65      70      75      80

```

Arg Ala Val Pro Trp Val Phe Ser Ala Leu Gln Ala Glu Val Gly Val
 85 90 95
 Leu Gly Glu Gln Met Arg Asp Gly Arg Gly Leu Cys Gly Ser His Pro
 100 105 110
 Trp Val Leu Gln Leu Ser Trp Pro Gly Val Phe Pro Gln Cys Trp Leu
 115 120 125
 Cys Pro Arg Leu Val Cys Leu Ala Lys Gln Asn Trp Gln Cys Pro Phe
 130 135 140
 Glu Thr Pro Arg Lys *
 145 149

<210> 1421
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1421
 Met Tyr Val Phe Leu Leu Cys Pro Ala Cys Gly Arg Leu Met Gly Ser
 1 5 10 15
 Thr Tyr Met Arg Leu Leu Pro Gln Ser Glu Pro Ala Leu His Asn Arg
 20 25 30
 Ile Leu Arg Gln Thr Glu Pro Leu Leu Tyr Phe Lys Arg Gly Lys Gln
 35 40 45
 Gln Gly Leu Phe Tyr Ala Ser Phe Pro Ala Val His Arg Met Asp Ser
 50 55 60
 Leu Leu Arg Arg Thr Val Val Ile Leu Tyr Lys Arg Thr Asn Thr Val
 65 70 75 80
 Gly Val Ser Leu Phe Gln Asn Ala *
 85 88

<210> 1422
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1422
 Met Met Thr Trp Ala Ser Leu Ala Leu Gly Leu Thr Arg Ala Leu Gly
 1 5 10 15
 Gly Met Gly Ser Phe Leu Leu Arg Ile Leu Gly Trp Ser Trp Ala Met
 20 25 30
 Gly Ser Arg Ser Arg Ala Arg Trp Pro Arg Gly Arg Leu Gly Phe Thr
 35 40 45
 Ser Met Leu Ser Cys Met Arg Gln Cys Ser Val Cys Arg Met Ile Met
 50 55 60
 Ser Leu Val Glu Val Leu Val Ala Thr Ser Gln Val Val Lys Leu Trp
 65 70 75 80
 Ser Arg *
 82

<210> 1423
 <211> 54

<212> PRT

<213> Homo sapiens

<400> 1423

```

Met Ile Leu Phe Pro Leu Cys Pro Ser Ile Leu Ser Leu Lys Pro Lys
 1               5               10               15
Lys Lys Glu Ala Leu Pro Ser Leu Ser Val Met Gly Thr Val Phe Leu
      20               25               30
Leu Val Ser Cys Ser Leu Pro Ser Pro Ala Ala Cys Gly Arg Asn Ala
      35               40               45
Ala Thr Ala Gln His *
      50               53

```

<210> 1424

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1424

```

Met Cys Phe Ser Cys Leu Pro Leu Gln Cys Leu Ala Met Gly His Lys
 1               5               10               15
His Tyr Pro Ala Val Gly Arg Leu Ala Lys Arg Ser Gln Leu Ala Ser
      20               25               30
Pro Ala Ser Ser Arg Glu Trp Asn His Gly Ser Asn Thr Leu Leu Arg
      35               40               45
Lys Gln Lys Leu Tyr Gly His Ile Phe His Leu Leu Ser Pro Arg Asn
      50               55               60
His Met Tyr Cys Asp Pro Ala His *
      65               70               72

```

<210> 1425

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1425

```

Met Ala Cys Tyr Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu
 1               5               10               15
Ile Ala Val Phe Asn Asn Thr Phe Phe Glu Val Lys Ser Ile Ser Asn
      20               25               30
Gln Val Trp Lys Phe Gln Arg Tyr Gln Leu Ile Met Thr Phe His Glu
      35               40               45
Arg Pro Val Leu Pro Pro Pro Leu Ile Ile Phe Ser His Met Thr Met
      50               55               60
Ile Phe Gln His Leu Cys Cys Arg Trp Arg Lys His Glu Ser Asp Pro
      65               70               75               80
Asp Glu Arg Asp Tyr Gly Leu Lys Leu Phe Ile Thr Asp Asp Glu Leu
      85               90               95
Lys Lys Val His Asp Phe Glu Glu Gln Cys Ile Glu Glu Tyr Phe Arg
      100               105               110
Glu Lys Asp Asp Arg Phe Asn Ser Ser Asn Asp Glu Arg Ile Arg Val
      115               120               125

```

```

Thr Ser Glu Arg Val Glu Asn Met Ser Met Arg Leu Glu Glu Val Asn
 130          135          140
Glu Arg Glu His Ser Met Lys Ala Ser Leu Gln Thr Val Asp Ile Arg
145          150          155          160
Leu Ala Gln Leu Glu Asp Leu Ile Gly Arg Met Ala Thr Ala Leu Glu
          165          170          175
Arg Leu Thr Gly Leu Glu Arg Ala Glu Ser Asn Lys Ile Arg Ser Arg
          180          185          190
Thr Ser Ser Asp Cys Thr Asp Ala Arg Leu His Trp Pro Val Arg Ala
          195          200          205
Ala Leu Thr Ser Gln Glu Arg Glu His Leu Ser Ala Pro Lys Arg Gly
          210          215          220
Leu Glu Pro Trp Gln Asn Ile Leu Phe Ile Gln Tyr Lys Pro Ala Ala
225          230          235          240
Ser Ser Ser Thr *
          244

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<210> 1426
<211> 520
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(520)
<223> Xaa = any amino acid or nothing

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```

<400> 1426
Met Asp Ile Leu Leu Leu Leu Phe Phe Met Ile Ile Phe Ala Ile
 1          5          10          15
Leu Gly Phe Tyr Leu Phe Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser
          20          25          30
Thr Leu Glu Asn Ser Ile Val Ser Leu Phe Val Leu Leu Thr Thr Ala
          35          40          45
Asn Phe Pro Asp Val Met Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser
          50          55          60
Cys Val Phe Phe Ile Val Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met
          65          70          75          80
Asn Leu Leu Leu Ala Val Val Phe Asp Thr Phe Asn Asp Ile Glu Lys
          85          90          95
Arg Lys Phe Lys Ser Leu Leu Leu His Lys Arg Thr Ala Ile Gln His
          100          105          110
Ala Tyr Arg Leu Leu Ile Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr
          115          120          125
Arg Gln Phe Glu Gly Leu Met Arg Phe Tyr Lys Pro Arg Met Ser Ala
          130          135          140
Arg Glu Arg Tyr Leu Thr Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro
145          150          155          160
Leu Leu Ser Leu Lys Asp Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu
          165          170          175
Lys Trp Lys Ala Thr Lys Asn Arg Glu His Trp Val Asp Glu Leu Pro
          180          185          190
Arg Thr Ala Leu Leu Ile Phe Lys Gly Ile Asn Ile Leu Val Lys Ala
          195          200          205
Lys Ala Phe Gln Tyr Phe Met Tyr Leu Val Val Ala Val Asn Gly Val
210          215          220
Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn Phe Phe Ser

```

```

225          230          235          240
Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile Tyr Gly Val
          245          250          255
Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu Tyr Leu Ser
          260          265          270
Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe Ala Phe Leu
          275          280          285
Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr Phe Ile Val
          290          295          300
Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu Lys Glu Arg
305          310          315          320
Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro Arg Met Ala
          325          330          335
Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe Ala Ile Val
          340          345          350
Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys Cys Asn Thr
          355          360          365
Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr Val Gly Asn
370          375          380
Arg Thr Val Val Glu Glu Gly Tyr Tyr Tyr Leu Asn Asn Phe Asp Asn
385          390          395          400
Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val Val Asn Asn
          405          410          415
Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser His Trp Ser
          420          425          430
Arg Leu Tyr Phe Met Thr Phe Tyr Ile Ala Thr Met Val Val Met Thr
          435          440          445
Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg Met Asn Tyr
          450          455          460
Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile Thr Leu Glu
465          470          475          480
Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu Leu Tyr Arg
          485          490          495
Glu Ala Arg Xaa Ala Ser Ser Asp Val Thr Arg Leu Leu Glu Thr Leu
          500          505          510
Ser Gln Met Glu Arg Tyr Gln Gln
          515          520

```

<210> 1427

<211> 106

<212> PRT

<213> Homo sapiens

<400> 1427

```

Met Ser Pro Gln His Leu Leu Leu Thr Leu Pro Leu Pro Leu Arg Ser
1          5          10          15
Pro Ile Leu Phe Ser His Thr Ala Gln Leu Leu Val Leu Thr Arg Ile
          20          25          30
Ala Phe Arg Ala Cys Glu Leu Phe Phe Val Met Val Ser Leu Cys
          35          40          45
Cys Pro Gly Ile His Ser Phe Ile Ala Thr Ile Thr Tyr Glu Arg Asn
          50          55          60
Ala Phe Gln Ser Ile Ser Ser Val Gln Gln Gln His Leu His Phe Gly
          65          70          75          80
Cys Ala Leu Ser Pro Pro Ala Pro Arg Glu Ser Phe Ser Pro Cys Leu
          85          90          95

```

Thr Thr His Arg Leu Pro Ser Cys Phe *
 100 105

<210> 1428
 <211> 841
 <212> PRT
 <213> Homo sapiens

<400> 1428
 Met Ala Leu Ala Ser Ala Ala Pro Gly Ser Ile Phe Cys Lys Gln Leu
 1 5 10 15
 Leu Phe Ser Leu Leu Val Leu Thr Leu Leu Cys Asp Ala Cys Gln Lys
 20 25 30
 Val Tyr Leu Arg Val Pro Ser His Leu Gln Ala Glu Thr Leu Val Gly
 35 40 45
 Lys Val Asn Leu Glu Glu Cys Leu Lys Ser Ala Ser Leu Ile Arg Ser
 50 55 60
 Ser Asp Pro Ala Phe Arg Ile Leu Glu Asp Gly Ser Ile Tyr Thr Thr
 65 70 75 80
 His Asp Leu Ile Leu Ser Ser Glu Arg Lys Ser Phe Ser Ile Phe Leu
 85 90 95
 Ser Asp Gly Gln Arg Arg Glu Gln Gln Glu Ile Lys Val Val Leu Ser
 100 105 110
 Ala Arg Glu Asn Lys Ser Pro Lys Lys Arg His Thr Lys Asp Thr Ala
 115 120 125
 Leu Lys Arg Ser Lys Arg Arg Trp Ala Pro Ile Pro Ala Ser Leu Met
 130 135 140
 Glu Asn Ser Leu Gly Pro Phe Pro Gln His Val Gln Gln Ile Gln Ser
 145 150 155 160
 Asp Ala Ala Gln Asn Tyr Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly
 165 170 175
 Val Asp Lys Glu Pro Phe Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly
 180 185 190
 Asp Ile Phe Cys Thr Arg Ser Ile Asp Arg Glu Lys Tyr Glu Gln Phe
 195 200 205
 Ala Leu Tyr Gly Tyr Ala Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr
 210 215 220
 Pro Leu Pro Leu Ile Ile Lys Ile Glu Asp Asp Asn Asp Asn Ala Pro
 225 230 235 240
 Tyr Phe Glu His Arg Val Thr Ile Phe Thr Val Pro Glu Asn Cys Arg
 245 250 255
 Ser Gly Thr Ser Val Gly Lys Val Thr Ala Thr Asp Leu Asp Glu Pro
 260 265 270
 Asp Thr Leu His Thr Arg Leu Lys Tyr Lys Ile Leu Gln Gln Ile Pro
 275 280 285
 Asp His Pro Lys His Phe Ser Ile His Pro Asp Thr Gly Val Ile Thr
 290 295 300
 Thr Thr Thr Pro Phe Leu Asp Arg Glu Lys Cys Asp Thr Tyr Gln Leu
 305 310 315 320
 Ile Met Glu Val Arg Asp Met Gly Gly Gln Pro Phe Gly Leu Phe Asn
 325 330 335
 Thr Gly Thr Ile Thr Ile Ser Leu Glu Asp Glu Asn Asp Asn Pro Pro
 340 345 350
 Ser Phe Thr Glu Thr Ser Tyr Val Thr Glu Val Glu Glu Asn Arg Ile
 355 360 365
 Asp Val Glu Ile Leu Arg Met Lys Val Gln Asp Gln Asp Leu Pro Asn

370		375		380
Thr Pro His Ser Lys	Ala Val Tyr Lys Ile	Leu Gln Gly Asn Glu Asn		
385	390	395		400
Gly Asn Phe Ile Ile	Ser Thr Asp Pro Asn Thr	Asn Glu Gly Val Leu		
	405	410		415
Cys Val Val Lys Pro	Leu Asn Tyr Glu Val	Asn Arg Gln Val Ile Leu		
	420	425		430
Gln Val Gly Val Ile	Asn Glu Ala Gln Phe Ser	Lys Ala Ala Ser Ser		
	435	440		445
Gln Thr Pro Thr Met	Cys Thr Thr Val Thr	Val Lys Ile Ile Asp		
	450	455		460
Ser Asp Glu Gly Pro	Glu Cys His Pro Pro	Val Lys Val Ile Gln Ser		
465	470	475		480
Gln Asp Gly Phe Pro	Ala Gly Gln Glu Leu	Leu Gly Tyr Lys Ala Leu		
	485	490		495
Asp Pro Glu Ile Ser	Ser Gly Glu Gly Leu	Arg Tyr Gln Lys Leu Gly		
	500	505		510
Asp Glu Asp Asn Trp	Phe Glu Ile Asn Gln	His Thr Gly Asp Leu Arg		
	515	520		525
Thr Leu Lys Val Leu	Asp Arg Glu Ser Lys	Phe Val Lys Asn Asn Gln		
	530	535		540
Tyr Asn Ile Ser Val	Val Ala Gly Asp Ala	Val Gly Arg Ser Cys Thr		
545	550	555		560
Gly Thr Leu Val Val	His Leu Asp Asp Tyr	Asn Asp His Ala Pro Gln		
	565	570		575
Ile Asp Lys Glu Val	Thr Ile Cys Gln Asn	Asn Glu Asp Phe Val Val		
	580	585		590
Leu Lys Pro Val Asp	Pro Asp Gly Pro Glu	Asn Gly Pro Pro Phe Gln		
	595	600		605
Phe Phe Leu Asp Asn	Ser Ala Ser Lys Asn	Trp Asn Ile Lys Lys Lys		
	610	615		620
Asp Gly Lys Thr Ala	Ile Leu Arg Gln Arg	Gln Asn Leu Asp Tyr Asn		
625	630	635		640
Tyr Tyr Ser Val Pro	Ile Gln Ile Lys Asp	Arg His Gly Leu Val Ala		
	645	650		655
Thr His Met Leu Thr	Val Arg Val Cys Asp	Cys Ser Thr Pro Ser Glu		
	660	665		670
Cys Thr Met Lys Asp	Lys Ser Thr Arg Asp	Val Arg Pro Asn Val Ile		
	675	680		685
Leu Gly Arg Trp Ala	Ile Leu Ala Met Val	Leu Gly Ser Val Leu Leu		
	690	695		700
Leu Cys Ile Leu Phe	Thr Cys Phe Cys Val	Thr Ala Lys Arg Thr Val		
705	710	715		720
Lys Lys Cys Phe Pro	Glu Asp Ile Ala Gln	Asn Leu Ile Val Ser		
	725	730		735
Asn Thr Glu Gly Pro	Gly Glu Glu Val Thr	Glu Ala Asn Ile Arg Leu		
	740	745		750
Pro Met Gln Thr Ser	Asn Ile Cys Asp Thr	Ser Met Ser Val Gly Thr		
	755	760		765
Val Gly Gly Gln Gly	Ile Lys Thr Gln Gln	Ser Phe Glu Met Val Lys		
	770	775		780
Gly Gly Tyr Thr Leu	Asp Ser Asn Lys Gly	Gly Gly His Gln Thr Leu		
785	790	795		800
Glu Ser Val Lys Gly	Val Gly Gln Gly Asp	Thr Gly Arg Tyr Ala Tyr		
	805	810		815
Thr Asp Trp Gln Ser	Phe Thr Gln Pro Arg	Leu Gly Glu Glu Ser Ile		
	820	825		830
Arg Gly His Thr Leu	Ile Lys Asn *			
835	840			

<210> 1429
 <211> 262
 <212> PRT
 <213> Homo sapiens

<400> 1429
 Met Glu Leu Leu Gln Val Thr Ile Leu Phe Leu Leu Pro Ser Ile Cys
 1 5 10 15
 Ser Ser Asn Ser Thr Gly Val Leu Glu Ala Ala Asn Asn Ser Leu Val
 20 25 30
 Val Thr Thr Thr Lys Pro Ser Ile Thr Thr Pro Asn Thr Glu Ser Leu
 35 40 45
 Gln Lys Asn Val Val Thr Pro Thr Thr Gly Thr Thr Pro Lys Gly Thr
 50 55 60
 Ile Thr Asn Glu Leu Leu Lys Met Ser Leu Met Ser Thr Ala Thr Phe
 65 70 75 80
 Leu Thr Ser Lys Asp Glu Gly Leu Lys Ala Thr Thr Thr Asp Val Arg
 85 90 95
 Lys Asn Asp Ser Ile Ile Ser Asn Val Thr Val Thr Ser Val Thr Leu
 100 105 110
 Pro Asn Ala Val Ser Thr Leu Gln Ser Ser Lys Pro Lys Thr Glu Thr
 115 120 125
 Gln Ser Ser Ile Lys Thr Thr Glu Ile Pro Gly Ser Val Leu Gln Pro
 130 135 140
 Asp Ala Ser Pro Ser Lys Thr Gly Thr Leu Thr Ser Ile Pro Val Thr
 145 150 155 160
 Ile Pro Glu Asn Thr Ser Gln Ser Gln Val Ile Gly Thr Glu Gly Gly
 165 170 175
 Lys Asn Ala Ser Thr Ser Ala Thr Ser Arg Ser Tyr Ser Ser Ile Ile
 180 185 190
 Leu Pro Val Val Ile Ala Leu Ile Val Ile Thr Leu Ser Val Phe Val
 195 200 205
 Leu Val Gly Leu Tyr Arg Met Cys Trp Lys Ala Asp Pro Gly Thr Pro
 210 215 220
 Glu Asn Gly Asn Asp Gln Pro Gln Ser Asp Lys Glu Ser Val Lys Leu
 225 230 235 240
 Leu Thr Val Lys Thr Ile Ser His Glu Ser Gly Glu His Ser Ala Gln
 245 250 255
 Gly Lys Thr Lys Asn *
 260 261

<210> 1430
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1430
 Met Ser Tyr Thr Ala Phe Leu Ser Val Cys Cys Leu Pro Leu Leu Pro
 1 5 10 15
 Leu Cys Asp Phe Ala Leu Tyr Val Leu Leu Asp Lys Phe Lys Gly Gly
 20 25 30
 Phe Arg Gln Gln Asn Ser Pro Gln Ser Ile Tyr Gln His Asn Pro Tyr

35 40 45
 Gln Asn Pro Asn Asn Val Leu Ile Phe Leu Gln Lys Trp Lys Asn Arg
 50 55 60
 Cys *
 65

<210> 1431
 <211> 437
 <212> PRT
 <213> Homo sapiens

<400> 1431
 Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
 1 5 10 15
 Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
 20 25 30
 Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
 35 40 45
 Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
 50 55 60
 Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
 65 70 75 80
 Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
 85 90 95
 Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
 100 105 110
 Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
 115 120 125
 Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
 130 135 140
 Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
 145 150 155 160
 Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser
 165 170 175
 Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser
 180 185 190
 Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu
 195 200 205
 Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly
 210 215 220
 Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg
 225 230 235 240
 Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met
 245 250 255
 Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu
 260 265 270
 Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe
 275 280 285
 Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu
 290 295 300
 Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu
 305 310 315 320
 Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln
 325 330 335
 Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys
 340 345 350

His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
 355 360 365
 Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
 370 375 380
 Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
 385 390 395 400
 Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
 405 410 415
 Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
 420 425 430
 Asp Val Tyr Ile *
 435 436

<210> 1432
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1432
 Met Ser Tyr Val Glu Ile Leu Ile Pro Val Leu Leu Cys Leu His Ala
 1 5 10 15
 Phe Phe Pro Ser Ser Arg Arg His Val Ala Trp Phe Leu Ile Phe Ile
 20 25 30
 Cys Lys Phe Phe Lys Phe Cys Leu Ile Leu Lys Phe Ile Ile Leu Ile
 35 40 45
 Leu Asn Tyr Leu *
 50 52

<210> 1433
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1433
 Met Glu Leu Lys Gly Phe Trp Leu Cys Leu Phe Leu Arg Phe Val Lys
 1 5 10 15
 Trp Phe Val Asn Lys Gly Met Ile Leu Cys Thr Leu Phe Tyr Asn Leu
 20 25 30
 Ile Tyr Ser Leu Tyr Asn Met Cys Trp Thr Val Leu Trp Ile Arg Lys
 35 40 45
 Tyr Gln Thr Leu Leu Lys Glu Ser Phe Phe Ser Leu Asn Thr Phe Leu
 50 55 60
 Phe Lys Asp Lys Ala Ser Thr Ser Ile Pro Leu *
 65 70 75

<210> 1434
 <211> 169
 <212> PRT
 <213> Homo sapiens

<400> 1434
 Met Glu Ser Trp Trp Gly Leu Pro Cys Leu Ala Phe Leu Cys Phe Leu
 1 5 10 15
 Met His Ala Arg Gly Gln Arg Asp Phe Asp Leu Ala Asp Ala Leu Asp
 20 25 30
 Asp Pro Glu Pro Thr Lys Lys Pro Asn Ser Asp Ile Tyr Pro Lys Pro
 35 40 45
 Lys Pro Pro Tyr Tyr Pro Gln Pro Glu Asn Pro Asp Ser Gly Gly Asn
 50 55 60
 Ile Tyr Pro Arg Pro Lys Pro Arg Pro Gln Pro Gln Pro Gly Asn Ser
 65 70 75 80
 Gly Asn Ser Gly Gly Ser Tyr Phe Asn Asp Val Asp Arg Asp Asp Gly
 85 90 95
 Arg Tyr Pro Pro Arg Pro Arg Pro Arg Pro Pro Ala Gly Gly Gly Gly
 100 105 110
 Gly Gly Tyr Ser Ser Tyr Gly Asn Ser Asp Asn Thr His Gly Gly Asp
 115 120 125
 His His Ser Thr Tyr Gly Asn Pro Glu Gly Asn Met Val Ala Lys Ile
 130 135 140
 Val Ser Pro Ile Val Ser Val Val Val Thr Leu Leu Gly Ala Ala
 145 150 155 160
 Ala Gln Leu Phe Gln Thr Lys Gln *
 165 168

<210> 1435
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 1435
 Met Arg Phe Val Thr Leu Ser Ser Ala Cys Leu Cys Pro Cys Pro Leu
 1 5 10 15
 Gly Pro Cys Trp Thr Arg His Pro Ser Tyr Gly Asn Leu His Glu Ala
 20 25 30
 Ser Thr Ser Leu Pro Pro Arg His Trp Thr Gly Ala Arg Lys Trp Asn
 35 40 45
 Glu Ser Ser His Cys Leu Lys Ser Trp Arg Pro Ser Ser Ala Ser Gly
 50 55 60
 Ser Pro Glu Asn Leu Gly Ser Asp Arg Arg Thr Glu Thr Glu Gly Arg
 65 70 75 80
 Glu Arg Asp Cys Asp Arg Glu Ala Glu Glu Gly Asp Arg Val Arg Glu
 85 90 95
 Glu Gln Asn Ser Leu Gln Trp Glu Gln Arg Gln Lys Cys Gly Gly Pro
 100 105 110
 Thr Gly Arg Gly Gly Arg Glu Gly Glu Gly Arg Arg Glu Gly Gln Leu
 115 120 125
 Pro Val Gln Val Ala Val Arg Ala Leu Gly Leu Gly Arg Gly Thr Leu
 130 135 140
 Leu Leu Leu Ala Ser His Thr Gly Ser Ile Arg Gly Pro Arg Glu Gln
 145 150 155 160
 Val Ser
 162

<210> 1436

<211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1436
 Met Trp Ile Val Leu Leu Gly Gly Phe Val Gly Pro Leu Tyr Leu Thr
 1 5 10 15
 Pro Ala Pro Ser Pro Cys Thr His Thr Leu Gly Val Arg Ala Val Pro
 20 25 30
 Leu Val Thr Gly Leu Thr Ser Gln Leu Trp Leu Asn Ala Ala Gly Glu
 35 40 45
 Ser Leu Thr Tyr Arg Met Trp Ser Met Ala Ser Met Thr Glu Gln Pro
 50 55 60
 Glu Leu Ser Glu Met Tyr Met Leu Pro Thr Leu His Glu
 65 70 75 77

<210> 1437
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1437
 Met Cys Ser Leu Pro Arg His Leu Leu Phe Leu Ile Ile Phe Arg Ala
 1 5 10 15
 Tyr Ser Leu Ala Val Asp Leu Ser Thr His Ser Leu Thr Thr Ala Lys
 20 25 30
 Phe Pro Ser Pro Ile Val Leu Pro Thr Leu Tyr Arg Ser Val Ile Val
 35 40 45
 Ala Gly Ile Trp Lys Pro Ser Ser Asp Thr Ser Ser Pro Gly Pro Ser
 50 55 60
 Phe Ser Ser Ile Glu Leu Gln Thr Leu Val Asp Ala Ser Asp Val Glu
 65 70 75 80
 Glu Pro Pro Cys *
 84

<210> 1438
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1438
 Met Ile Gly Asp Ile Leu Leu Phe Gly Thr Leu Leu Met Asn Ala Gly
 1 5 10 15
 Ala Val Leu Asn Phe Lys Leu Lys Lys Lys Asp Thr Gln Gly Phe Gly
 20 25 30
 Glu Glu Ser Arg Glu Pro Ser Thr Gly Asp Asn Ile Arg Glu Phe Leu
 35 40 45
 Leu Ser Leu Arg Tyr Phe Arg Ile Phe Ile Ala Leu Trp Asn Ile Phe
 50 55 60
 Met Met Phe Cys Met Ile Val Leu Phe Gly Ser *
 65 70 75

<210> 1439
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1439
 Met Ser Leu Thr Ile Trp Thr Val Cys Gly Val Leu Ser Leu Phe Gly
 1 5 10 15
 Ala Leu Ser Tyr Ala Glu Leu Gly Thr Thr Ile Lys Lys Ser Gly Gly
 20 25 30
 His Tyr Thr Tyr Ile Leu Glu Val Phe Gly Pro Leu Pro Ala Phe Val
 35 40 45
 Arg Val Trp Val Glu Leu Leu Ile Ile Arg Pro Ala Ala Thr Ala Val
 50 55 60
 Ile Ser Leu Ala Phe Gly Arg Tyr Ile Leu Glu Pro Phe Phe Ile Gln
 65 70 75 80
 Cys Glu Ile Pro Glu Leu Ala Ile Lys Leu Ile Thr Ala Val Gly Ile
 85 90 95
 Thr Val Val Met Val Leu Asn Ser Met Ser Val Ser Trp Ser Ala Arg
 100 105 110
 Ile Gln Ile Phe Leu Thr Phe Cys Lys Leu Thr Ala Ile Leu Ile Ile
 115 120 125
 Ile Val Pro Gly Val Met Gln Leu Ile Lys Gly Gln Thr Gln Asn Phe
 130 135 140
 Lys Asp Ala Phe Ser Gly Arg Asp Ser Ser Ile Thr Arg Leu Pro Leu
 145 150 155 160
 Ala Phe Tyr Tyr Gly Met Tyr Ala Tyr Ala Gly Trp Phe Tyr Leu Asn
 165 170 175
 Phe Val Thr Glu Glu Val Glu Asn Pro Glu Lys Thr Ile Pro Leu Ala
 180 185 190
 Ile Cys Ile Ser Met Ala Ile Val Thr Ile Gly Tyr Val Leu Thr Asn
 195 200 205
 Val Ala Tyr Phe Thr Thr Ile Asn Ala Glu Glu Leu Leu Ser Asn
 210 215 220
 Ala Val Ala Val Thr Phe Ser Glu Arg Leu Leu Gly Asn Phe Ser Leu
 225 230 235 240
 Ala Val Pro Ile Phe Val Ala Leu Ser Cys Phe Gly Ser Met Asn Gly
 245 250 255
 Gly Val Phe Ala Val Ser Arg Leu Phe Tyr Val Ala Ser Arg Glu Gly
 260 265 270
 His Leu Pro Glu Ile Leu Ser Met Ile His Val Arg Lys His Thr Pro
 275 280 285
 Leu Pro Ala Val Ile Val Leu His Pro Leu Thr Met Ile Met Leu Phe
 290 295 300
 Ser Gly Asp Leu Asp Ser Leu Leu Asn Phe Leu Ser Phe Ala Arg Trp
 305 310 315 320
 Leu Phe Ile Gly Leu Ala Val Ala Gly Leu Ile Tyr Leu Arg Tyr Lys
 325 330 335
 Cys Pro Asp Met His Arg Pro Phe Lys Val Pro Leu Phe Ile Pro Ala
 340 345 350
 Leu Phe Ser Phe Thr Cys Leu Phe Met Val Ala Leu Ser Leu Tyr Ser
 355 360 365
 Asp Pro Phe Ser Thr Gly Ile Gly Phe Val Ile Thr Leu Thr Gly Val
 370 375 380
 Pro Ala Tyr Tyr Leu Phe Ile Ile Trp Asp Lys Lys Pro Arg Trp Phe
 385 390 395 400

Arg Ile Met Ser Glu Lys Ile Thr Arg Thr Leu Gln Ile Ile Leu Glu
 405 410 415
 Val Val Pro Glu Glu Asp Lys Leu *
 420 424

<210> 1440
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1440
 Met Ser Val Phe Trp Gly Phe Val Gly Phe Leu Val Pro Trp Phe Ile
 1 5 10 15
 Pro Lys Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Thr Cys
 20 25 30
 Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
 35 40 45
 Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Leu
 50 55 60
 Lys Tyr His Trp Pro *
 65 69

<210> 1441
 <211> 1691
 <212> PRT
 <213> Homo sapiens

<400> 1441
 Met Trp Ser Leu His Ile Val Leu Met Arg Cys Ser Phe Arg Leu Thr
 1 5 10 15
 Lys Ser Leu Ala Thr Gly Pro Trp Ser Leu Ile Leu Ile Leu Phe Ser
 20 25 30
 Val Gln Tyr Val Tyr Gly Ser Gly Lys Lys Tyr Ile Gly Pro Cys Gly
 35 40 45
 Gly Arg Asp Cys Ser Val Cys His Cys Val Pro Glu Lys Gly Ser Arg
 50 55 60
 Gly Pro Pro Gly Pro Pro Gly Pro Gln Gly Pro Ile Gly Pro Leu Gly
 65 70 75 80
 Ala Pro Gly Pro Ile Gly Leu Ser Gly Glu Lys Gly Met Arg Gly Asp
 85 90 95
 Arg Gly Pro Pro Gly Ala Ala Gly Asp Lys Gly Asp Lys Gly Pro Thr
 100 105 110
 Gly Val Pro Gly Phe Pro Gly Leu Asp Gly Ile Pro Gly His Pro Gly
 115 120 125
 Pro Pro Gly Pro Arg Gly Lys Pro Gly Met Ser Gly His Asn Gly Ser
 130 135 140
 Arg Gly Asp Pro Gly Phe Pro Gly Gly Arg Gly Ala Leu Gly Pro Gly
 145 150 155 160
 Gly Pro Leu Gly His Pro Gly Glu Lys Gly Glu Lys Gly Asn Ser Val
 165 170 175
 Phe Ile Leu Gly Ala Val Lys Gly Ile Gln Gly Asp Arg Gly Asp Pro
 180 185 190
 Gly Leu Pro Gly Leu Pro Gly Ser Trp Gly Ala Gly Gly Pro Ala Gly

195	200	205
Pro Thr Gly Tyr	Pro Gly Glu	Pro Gly Leu Val Gly
210	215	220
Pro Gly Arg Pro Gly	Leu Lys Gly Asn	Pro Gly Val Gly
225	230	235
Gln Met Gly Asp	Pro Gly Glu Val Gly	Gln Gly Ser
245	250	255
Thr Leu Leu Val	Glu Pro Pro Asp	Phe Cys Leu Tyr Lys
260	265	270
Gly Ile Lys Gly	Ile Pro Gly Met	Val Gly Leu Pro Gly
275	280	285
Arg Lys Gly Glu	Ser Gly Ile Gly	Ala Lys Gly
290	295	300
Gly Phe Pro Gly	Pro Arg Gly Asp	Pro Gly Ser Tyr
305	310	315
Phe Pro Gly Leu	Lys Gly Glu Leu	Gly Val Gly Asp
325	330	335
Phe Gly Leu Ile	Gly Pro Lys Gly	Asp Pro Gly Asn
340	345	350
Gly Pro Pro Gly	Val Leu Val Thr	Pro Pro Leu Pro
355	360	365
Pro Gly Asp Pro	Gly Phe Pro Gly	Arg Tyr Gly
370	375	380
Gly Pro Pro Gly	Pro Pro Gly Leu	Leu Gly Arg
385	390	395
Ala Gly Met Ile	Gly Pro Pro Gly	Pro Gln Gly
405	410	415
Gly Leu Pro Gly	Glu Ala Gly Ile	Pro Gly Arg
420	425	430
Gly Lys Pro Gly	Lys Pro Gly Ser	Pro Gly Leu Pro
435	440	445
Leu Gln Gly Leu	Pro Gly Ser Ser	Val Ile Tyr Cys
450	455	460
Pro Gly Pro Gln	Gly Ile Lys Gly	Lys Val Gly
465	470	475
Gly Pro Lys Gly	Glu Lys Gly Asn	Glu Gly Leu Cys
485	490	495
Gly Pro Met Gly	Pro Pro Gly Pro	Pro Gly Leu Pro
500	505	510
Ser Lys Gly Asp	Leu Gly Leu Pro	Gly Trp Leu Gly
515	520	525
Pro Gly Pro Pro	Gly Ala Glu Gly	Pro Pro Gly
530	535	540
Gly Ala Ser Gly	Pro Pro Gly Asn	Lys Gly Ala Lys
545	550	555
Val Ser Arg Val	Lys Gly His Lys	Gly Glu Arg
565	570	575
Pro Gly Phe Pro	Gly Gln Pro Gly	Ser His Gly
580	585	590
Gly Glu Lys Gly	Asp Pro Gly Pro	Gly Asp His
595	600	605
Pro Gly Gly Lys	Gly Phe Pro Gly	Pro Leu Gly
610	615	620
Gly Pro Val Gly	Pro Pro Gly Leu	Gly Phe Pro Gly
625	630	635
Arg Gly His Pro	Gly Val Pro Gly	His Pro Gly
645	650	655
Gly Leu Lys Gly	Gln Lys Gly Asp	Thr Ile Ser
660	665	670

Pro Gly Arg His Gly Pro Pro Gly Phe Asp Gly Pro Pro Gly Pro Lys
 675 680 685
 Gly Phe Pro Gly Pro Gln Gly Ala Pro Gly Leu Ser Gly Ser Asp Gly
 690 695 700
 His Lys Gly Arg Pro Gly Thr Pro Gly Thr Ala Glu Ile Pro Gly Pro
 705 710 715 720
 Pro Gly Phe Arg Gly Asp Met Gly Asp Pro Gly Phe Gly Gly Glu Lys
 725 730 735
 Gly Ser Ser Pro Val Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly Val
 740 745 750
 Asn Gly Gln Lys Gly Ile Pro Gly Asp Pro Ala Phe Gly His Leu Gly
 755 760 765
 Pro Pro Gly Lys Arg Gly Leu Ser Gly Val Pro Gly Ile Lys Gly Pro
 770 775 780
 Arg Gly Asp Pro Gly Cys Pro Gly Ala Glu Gly Pro Ala Gly Ile Pro
 785 790 795 800
 Gly Phe Leu Gly Leu Lys Gly Pro Lys Gly Arg Glu Gly His Ala Gly
 805 810 815
 Phe Pro Gly Val Pro Gly Pro Pro Gly His Ser Cys Glu Arg Gly Ala
 820 825 830
 Pro Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Tyr Pro Gly Ser Pro
 835 840 845
 Gly Ala Pro Gly Gly Lys Gly Gln Pro Gly Asp Val Gly Pro Pro Gly
 850 855 860
 Pro Ala Gly Met Lys Gly Leu Pro Gly Leu Pro Gly Arg Pro Gly Ala
 865 870 875 880
 His Gly Pro Pro Gly Leu Pro Gly Ile Pro Gly Pro Phe Gly Asp Asp
 885 890 895
 Gly Leu Pro Gly Pro Pro Gly Pro Lys Gly Pro Arg Gly Leu Pro Gly
 900 905 910
 Phe Pro Gly Phe Pro Gly Glu Arg Gly Lys Pro Gly Ala Glu Gly Cys
 915 920 925
 Pro Gly Ala Lys Gly Glu Pro Gly Glu Lys Gly Met Ser Gly Leu Pro
 930 935 940
 Gly Asp Arg Gly Leu Arg Gly Ala Lys Gly Ala Ile Gly Pro Pro Gly
 945 950 955 960
 Asp Glu Gly Glu Met Ala Ile Ile Ser Gln Lys Gly Thr Pro Gly Glu
 965 970 975
 Pro Gly Pro Pro Gly Asp Asp Gly Phe Pro Gly Glu Arg Gly Asp Lys
 980 985 990
 Gly Thr Pro Gly Met Gln Gly Arg Arg Gly Glu Leu Gly Arg Tyr Gly
 995 1000 1005
 Pro Pro Gly Phe His Arg Gly Glu Pro Gly Glu Lys Gly Gln Pro Gly
 1010 1015 1020
 Pro Pro Gly Pro Pro Gly Pro Pro Gly Ser Thr Gly Leu Arg Gly Phe
 1025 1030 1035 1040
 Ile Gly Phe Pro Gly Leu Pro Gly Asp Gln Gly Glu Pro Gly Ser Pro
 1045 1050 1055
 Gly Pro Pro Gly Phe Ser Gly Ile Asp Gly Ala Arg Gly Pro Lys Gly
 1060 1065 1070
 Asn Lys Gly Asp Pro Ala Ser His Phe Gly Pro Pro Gly Pro Lys Gly
 1075 1080 1085
 Glu Pro Gly Ser Pro Gly Cys Pro Gly His Phe Gly Ala Ser Gly Glu
 1090 1095 1100
 Gln Gly Leu Pro Gly Ile Gln Gly Pro Arg Gly Ser Pro Gly Arg Pro
 1105 1110 1115 1120
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Cys Pro Gly Asp His Gly
 1125 1130 1135
 Met Pro Gly Leu Arg Gly Gln Pro Gly Glu Met Gly Asp Pro Gly Pro

1140 1145 1150
 Arg Gly Leu Gln Gly Asp Pro Gly Ile Pro Gly Pro Pro Gly Ile Lys
 1155 1160 1165
 Gly Pro Ser Gly Ser Pro Gly Leu Asn Gly Leu His Gly Leu Lys Gly
 1170 1175 1180
 Gln Lys Gly Thr Lys Gly Ala Ser Gly Leu His Asp Val Gly Pro Pro
 1185 1190 1195 1200
 Gly Pro Val Gly Ile Pro Gly Leu Lys Gly Glu Arg Gly Asp Pro Gly
 1205 1210 1215
 Ser Pro Gly Ile Ser Pro Pro Gly Pro Arg Gly Lys Lys Gly Pro Pro
 1220 1225 1230
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Pro Ala Gly Ala Thr Gly
 1235 1240 1245
 Arg Ala Pro Lys Asp Ile Pro Asp Pro Gly Pro Pro Gly Asp Gln Gly
 1250 1255 1260
 Pro Pro Gly Pro Asp Gly Pro Arg Gly Ala Pro Gly Pro Pro Gly Leu
 1265 1270 1275 1280
 Pro Gly Ser Val Asp Leu Leu Arg Gly Glu Pro Gly Asp Cys Gly Leu
 1285 1290 1295
 Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Tyr Lys
 1300 1305 1310
 Gly Phe Pro Gly Cys Asp Gly Lys Asp Gly Gln Lys Gly Pro Val Gly
 1315 1320 1325
 Phe Pro Gly Pro Gln Gly Pro His Gly Phe Pro Gly Pro Pro Gly Glu
 1330 1335 1340
 Lys Gly Leu Pro Gly Pro Pro Gly Arg Lys Gly Pro Thr Gly Leu Pro
 1345 1350 1355 1360
 Gly Pro Arg Gly Glu Pro Gly Pro Pro Ala Asp Val Asp Asp Cys Pro
 1365 1370 1375
 Arg Ile Pro Gly Leu Pro Gly Ala Pro Gly Met Arg Gly Pro Glu Gly
 1380 1385 1390
 Ala Met Gly Leu Pro Gly Met Arg Gly Pro Ser Gly Pro Gly Cys Lys
 1395 1400 1405
 Gly Glu Pro Gly Leu Asp Gly Arg Arg Gly Val Asp Gly Val Pro Gly
 1410 1415 1420
 Ser Pro Gly Pro Pro Gly Arg Lys Gly Asp Thr Gly Glu Asp Gly Tyr
 1425 1430 1435 1440
 Pro Gly Gly Pro Gly Pro Pro Gly Pro Ile Gly Asp Pro Gly Pro Lys
 1445 1450 1455
 Gly Phe Gly Pro Gly Tyr Leu Gly Gly Phe Leu Leu Val Leu His Ser
 1460 1465 1470
 Gln Thr Asp Gln Glu Pro Thr Cys Pro Leu Gly Met Pro Arg Leu Trp
 1475 1480 1485
 Thr Gly Tyr Ser Leu Leu Tyr Leu Glu Gly Gln Glu Lys Ala His Asn
 1490 1495 1500
 Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu Pro Val Phe Ser Thr Leu
 1505 1510 1515 1520
 Pro Phe Ala Tyr Cys Asn Ile His Gln Val Cys His Tyr Ala Gln Arg
 1525 1530 1535
 Asn Asp Arg Ser Tyr Trp Leu Ala Ser Ala Ala Pro Leu Pro Met Met
 1540 1545 1550
 Pro Leu Ser Glu Glu Ala Ile Arg Pro Tyr Val Ser Arg Cys Ala Val
 1555 1560 1565
 Cys Glu Ala Pro Ala Gln Ala Val Ala Val His Ser Gln Asp Gln Ser
 1570 1575 1580
 Ile Pro Pro Cys Pro Gln Thr Trp Arg Ser Leu Trp Ile Gly Tyr Ser
 1585 1590 1595 1600
 Phe Leu Met His Thr Gly Ala Gly Asp Gln Gly Gly Gly Gln Ala Leu
 1605 1610 1615

Met Ser Pro Gly Ser Cys Leu Glu Asp Phe Arg Ala Ala Pro Phe Leu
 1620 1625 1630
 Glu Cys Gln Gly Arg Gln Gly Thr Cys His Phe Phe Ala Asn Lys Tyr
 1635 1640 1645
 Ser Phe Trp Leu Thr Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala
 1650 1655 1660
 Pro Ala Pro Asp Thr Leu Lys Glu Ser Gln Ala Gln Arg Gln Lys Ile
 1665 1670 1675 1680
 Ser Arg Cys Gln Val Cys Val Lys Tyr Ser *
 1685 1690

<210> 1442
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 1442
 Met Gly Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu Gly Ala
 1 5 10 15
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Glu Cys Gly Val Gly Arg Glu
 20 25 30
 Arg Ala Ser Ala Gly Arg Ser Glu Trp Pro Ala Arg Pro Gly Glu Pro
 35 40 45
 Arg Arg Glu Glu Gly Arg Ala Gly Leu Ser Leu Ser Ser Pro Pro Gly
 50 55 60
 Ser His Ser Leu Arg Tyr Phe Ser Thr Ala Val Ser Gln Pro Gly Arg
 65 70 75 80
 Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu Phe
 85 90 95
 Val Arg Phe Asp Ser Asp Ser Val Ser Pro Arg Met Glu Arg Arg Ala
 100 105 110
 Pro Trp Val Glu Gln Glu Gly Leu Glu Tyr Trp Asp Gln Glu Thr Arg
 115 120 125
 Asn Ala Lys Gly His Ala Gln Ile Tyr Arg Val Asn Leu Arg Thr Leu
 130 135 140
 Leu Arg Tyr Tyr Asn Gln Ser Glu Ala
 145 150 153

<210> 1443
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1443
 Met Ser Leu Leu Cys Leu Lys Phe Phe Ser Gly Leu Trp Thr Ile Thr
 1 5 10 15
 Phe Ser Lys Gly Ala Lys Ile Ile His Trp Gly Arg Ser Leu Phe Asn
 20 25 30
 Trp Ile Ser Met Cys Lys Arg Met Lys Leu Asp Pro Tyr Ser Tyr His
 35 40 45
 Thr Gln Lys Leu Thr Gln Asn Gly Ser *
 50 55 57

<210> 1444
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1444
 Met Pro Val Pro Leu Ala Tyr Phe Gln Ser Ser Ile Val Leu Phe Pro
 1 5 10 15
 Leu Ile Phe Ser Leu Val Thr Cys Val Ser Leu Asp Gly Glu Pro Lys
 20 25 30
 Ser Val Val Gly Val Ile Ser Ile Ser Ala Tyr Tyr Arg Ala Ile Ser
 35 40 45
 Ile Leu Leu Ile Phe Ser Lys Ser Phe Cys Cys Ala Ser Leu Ala Gly
 50 55 60
 Val Leu Val Ile *
 65 68

<210> 1445
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 1445
 Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val
 1 5 10 15
 Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro
 20 25 30
 Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met
 35 40 45
 Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu
 50 55 60
 Val Phe Leu Leu Ser Glu Ala His Thr Cys Val Pro Glu Asn Asn Gly
 65 70 75 80
 Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
 85 90 95
 Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
 100 105 110
 Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
 115 120 125
 Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Leu Thr Trp Ser
 130 135 140
 Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala
 145 150 155 160
 Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn
 165 170 175
 Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys
 180 185 190
 Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr
 195 200 205
 Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Ser
 210 215 220
 Tyr Arg Glu Pro Phe Glu Gln His Leu Leu Leu Gly Val Ser Val Ser
 225 230 235 240

Cys Ile Val Ile Leu Ala Val Cys Leu Leu Cys Tyr Val Ser Ile Thr
 245 250 255
 Lys Ile Lys Lys Glu Trp Trp Asp Gln Ile Pro Asn Pro Ala Arg Ser
 260 265 270
 Arg Leu Val Ala Ile Ile Ile Gln Asp Ala Gln Gly Ser Gln Trp Glu
 275 280 285
 Lys Arg Ser Arg Gly Gln Glu Pro Ala Lys Cys Pro His Trp Lys Asn
 290 295 300
 Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
 305 310 315 320
 Asp Glu Asp Pro His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
 325 330 335
 Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
 340 345 350
 Pro Glu Ser Ile Ser Val Val Arg Cys Val Glu Leu Phe Glu Ala Pro
 355 360 365
 Val Glu Cys Glu Glu Glu Glu Val Glu Glu Glu Lys Gly Ser Phe
 370 375 380
 Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
 385 390 395 400
 Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
 405 410 415
 Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
 420 425 430
 Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
 435 440 445
 Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
 450 455 460
 Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp
 465 470 475 480
 Asn Leu Thr Cys Thr Glu Thr Pro Leu Val Ile Ala Gly Asn Pro Ala
 485 490 495
 Tyr Arg Ser Phe Ser Asn Ser Leu Ser Gln Ser Pro Cys Pro Arg Glu
 500 505 510
 Leu Gly Pro Asp Pro Leu Leu Ala Arg His Leu Glu Glu Val Glu Pro
 515 520 525
 Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
 530 535 540
 Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
 545 550 555 560
 His Gly Ala Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Gln
 565 570 575
 Glu Phe Val His Ala Val Glu Gln Gly Gly Thr Gln Ala Ser Ala Val
 580 585 590
 Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
 595 600 605
 Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
 610 615 620
 Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
 625 630 635 640
 Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
 645 650 655
 Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
 660 665 670
 Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
 675 680 685
 Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
 690 695 700
 Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu

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705          710          715          720
Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr
          725          730          735
Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Cys Gly Asp Arg Ala
          740          745          750
Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly
          755          760          765
Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly
          770          775          780
Ile Ser Glu Lys Ser Lys Ser Ser Ser Ser Phe His Pro Ala Pro Gly
785          790          795          800
Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser
          805          810          815
Val Gly Pro Thr Tyr Met Arg Val Ser *
          820          825

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<210> 1446
<211> 367
<212> PRT
<213> Homo sapiens

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<400> 1446
Met Ala Leu Arg Phe Leu Leu Gly Phe Leu Leu Ala Gly Val Asp Leu
 1          5          10          15
Gly Val Tyr Leu Met Arg Leu Glu Leu Cys Asp Pro Thr Gln Arg Leu
          20          25          30
Arg Val Ala Leu Ala Gly Glu Leu Val Gly Val Gly Gly His Phe Leu
          35          40          45
Phe Leu Gly Leu Ala Leu Val Ser Lys Asp Trp Arg Phe Leu Gln Arg
          50          55          60
Met Ile Thr Ala Pro Cys Ile Leu Phe Leu Phe Tyr Gly Trp Pro Gly
          65          70          75          80
Leu Phe Leu Glu Ser Ala Arg Trp Leu Ile Val Lys Arg Gln Ile Glu
          85          90          95
Glu Ala Gln Ser Val Leu Arg Ile Leu Ala Glu Arg Asn Arg Pro His
          100          105          110
Gly Gln Met Leu Gly Glu Glu Ala Gln Glu Ala Leu Gln Asp Leu Glu
          115          120          125
Asn Thr Cys Pro Leu Pro Ala Thr Ser Ser Phe Ser Phe Ala Ser Leu
          130          135          140
Leu Asn Tyr Arg Asn Ile Trp Lys Asn Leu Leu Ile Leu Gly Phe Thr
          145          150          155          160
Asn Phe Ile Ala His Ala Ile Arg His Cys Tyr Gln Pro Val Gly Gly
          165          170          175
Gly Gly Ser Pro Ser Asp Phe Tyr Leu Cys Ser Leu Leu Ala Ser Gly
          180          185          190
Thr Ala Ala Leu Ala Cys Val Phe Leu Gly Val Thr Val Asp Arg Phe
          195          200          205
Gly Arg Arg Gly Ile Leu Leu Ser Met Thr Leu Thr Gly Ile Ala
          210          215          220
Ser Leu Val Leu Leu Gly Leu Trp Asp Tyr Leu Asn Glu Ala Ala Ile
          225          230          235          240
Thr Thr Phe Ser Val Leu Gly Leu Phe Ser Ser Gln Ala Ala Ala Ile
          245          250          255
Leu Ser Thr Leu Leu Ala Ala Glu Val Ile Pro Thr Thr Val Arg Gly
          260          265          270

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Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser
 275 280 285
 Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
 290 295 300
 Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
 305 310 315 320
 Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
 325 330 335
 Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
 340 345 350
 Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu *
 355 360 365 366

<210> 1447

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1447

Met Ala Ile Ser Trp Leu Gly Thr Trp Leu Leu Gln Ser His Arg His
 1 5 10 15
 Trp Ser Glu Pro Gln Leu Cys Arg Leu Pro Ala Arg His His Leu Ile
 20 25 30
 Asn Leu Asn Phe Met Val Ala Glu Gly Ile Gly Asp Arg Ala Trp His
 35 40 45
 Ile Ile Ser Ala Gln Leu Phe Met Thr Phe Ser Phe His Ala Val Ile
 50 55 60
 Leu Gln Thr Asp Leu Gly Glu Ala Gly Lys Tyr Lys Asp Lys *
 65 70 75 78

<210> 1448

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1448

Met Val Trp Val Val Leu Leu Ser Leu Leu Cys Tyr Leu Val Leu Phe
 1 5 10 15
 Leu Cys Arg His Ser Ser His Arg Gly Val Phe Leu Ser Val Thr Ile
 20 25 30
 Leu Ile Tyr Leu Leu Met Gly Glu Met His Met Val Asp Thr Val Thr
 35 40 45
 Trp His Lys Met Arg Gly Ala Gln Met Ile Val Ala Met Lys Ala Val
 50 55 60
 Ser Leu Gly Phe Asp Leu Asp Arg Gly Glu Val Gly Thr Val Pro Ser
 65 70 75 80
 Pro Val Glu Phe Met Gly Tyr Leu Tyr Phe Val Gly Thr Ile Val Phe
 85 90 95
 Gly Pro Trp Ile Ser Phe His Ser Tyr Leu Gln Ala Val Gln Gly Arg
 100 105 110
 Pro Leu Ser Cys Arg Trp Leu Gln Lys Val Ala Arg Ser Leu Ala Leu
 115 120 125
 Ala Leu Leu Cys Leu Val Leu Ser Thr Cys Val Gly Pro Tyr Leu Phe

130	135	140
Pro Tyr Phe Ile Pro Leu Asn Gly Asp Arg Leu Leu Arg Lys Trp Leu		
145	150	155
Arg Ala Tyr Glu Ser Ala Val Ser Phe His Phe Ser Asn Tyr Phe Val		160
	165	170
Gly Phe Leu Ser Glu Ala Thr Ala Thr Leu Ala Gly Ala Gly Phe Thr		175
	180	185
Glu Glu Lys Asp His Leu Glu Trp Asp Leu Thr Val Ser Lys Pro Leu		190
	195	200
Asn Val Glu Leu Pro Arg Ser Met Val Glu Val Val Thr Ser Trp Asn		205
210	215	220
Leu Pro Met Ser Tyr Trp Leu Asn Asn Tyr Gly Phe Lys Asn Ala Leu		225
	230	235
Arg Leu Gly Thr Leu Leu Gly Cys Ala Gly His Leu Cys Ser Gln Arg		240
	245	250
Pro Ser Lys Leu Leu Lys Phe Pro Pro Gly Trp Gly Pro Cys Cys Pro		255
	260	265
Gly Phe Leu *		270
275		

<210> 1449

<211> 597

<212> PRT

<213> Homo sapiens

<400> 1449

Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly	
1	5
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln	10
	15
	20
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe	25
	30
	35
Ser Ser Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu	40
	45
	50
Val Trp Val Ser Arg Ile Asn Thr Asp Gly Ser Thr Ser Tyr Ala	55
	60
65	70
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn	75
	80
	85
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val	90
	95
	100
Tyr Tyr Cys Ala Arg Ala Asp Asn Cys Ser Ser Thr Ser Cys Tyr Lys	105
	110
	115
Cys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly	120
	125
	130
Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Cys Glu Asn Ser	135
145	140
	145
Pro Ser Asp Thr Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe	150
	155
	160
Leu Pro Asp Ser Ile Thr Phe Ser Trp Lys Tyr Lys Asn Asn Ser Asp	165
	170
	175
	180
Ile Ser Ser Thr Arg Gly Phe Pro Ser Val Leu Arg Gly Gly Lys Tyr	185
	190
	195
Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln Gly	200
	205
	210
Thr Asp Glu His Val Val Cys Lys Val Gln His Pro Asn Gly Asn Lys	215
	220
225	225
	230
	235
	240

Glu Lys Asn Val Pro Leu Pro Val Ile Ala Glu Leu Pro Pro Lys Val
 245 250 255
 Ser Val Phe Val Pro Pro Arg Asp Gly Phe Phe Gly Asn Pro Arg Lys
 260 265 270
 Ser Lys Leu Ile Cys Gln Ala Thr Gly Phe Ser Pro Arg Gln Ile Gln
 275 280 285
 Val Ser Trp Leu Arg Glu Gly Lys Gln Val Gly Ser Gly Val Thr Thr
 290 295 300
 Asp Gln Val Gln Ala Glu Ala Lys Glu Ser Gly Pro Thr Thr Tyr Lys
 305 310 315 320
 Val Thr Ser Thr Leu Thr Ile Lys Glu Ser Asp Trp Leu Ser Gln Ser
 325 330 335
 Met Phe Thr Cys Arg Val Asp His Arg Gly Leu Thr Phe Gln Gln Asn
 340 345 350
 Ala Ser Ser Met Cys Val Pro Asp Gln Asp Thr Ala Ile Arg Val Phe
 355 360 365
 Ala Ile Pro Pro Ser Phe Ala Ser Ile Phe Leu Thr Lys Ser Thr Lys
 370 375 380
 Leu Thr Cys Leu Val Thr Asp Leu Thr Thr Tyr Asp Ser Val Thr Ile
 385 390 395 400
 Ser Trp Thr Arg Gln Asn Gly Glu Ala Val Lys Thr His Thr Asn Ile
 405 410 415
 Ser Glu Ser His Pro Asn Ala Thr Phe Ser Ala Val Gly Glu Ala Ser
 420 425 430
 Ile Cys Glu Asp Asp Trp Asn Ser Gly Glu Arg Phe Thr Cys Thr Val
 435 440 445
 Thr His Thr Asp Leu Pro Ser Pro Leu Lys Gln Thr Ile Ser Arg Pro
 450 455 460
 Lys Gly Val Ala Leu His Arg Pro Asp Val Tyr Leu Leu Pro Pro Ala
 465 470 475 480
 Arg Glu Gln Leu Asn Leu Arg Glu Ser Ala Thr Ile Thr Cys Leu Val
 485 490 495
 Thr Gly Phe Ser Pro Ala Asp Val Phe Val Gln Trp Met Gln Arg Gly
 500 505 510
 Gln Pro Leu Ser Pro Glu Lys Tyr Val Thr Ser Ala Pro Met Pro Glu
 515 520 525
 Pro Gln Ala Pro Gly Arg Tyr Phe Ala His Ser Ile Leu Thr Val Ser
 530 535 540
 Glu Glu Glu Trp Asn Thr Gly Glu Thr Tyr Thr Cys Val Val Ala His
 545 550 555 560
 Glu Ala Leu Pro Asn Arg Val Thr Glu Arg Thr Val Asp Lys Ser Thr
 565 570 575
 Gly Lys Pro Thr Leu Tyr Asn Val Ser Leu Val Met Ser Asp Thr Ala
 580 585 590
 Gly Thr Cys Tyr *
 595 596

<210> 1450

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1450

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp
 1 5 10 15
 Leu Cys Cys Ala Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr

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<210> 1451
<211> 121
<212> PRT
<213> Homo sapiens
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827

<210> 1452
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1452
 Met Glu Arg Gly Asn Ala Leu Val Val Leu Arg Ser Leu Leu Trp Pro
 1 5 10 15
 Gly Leu Thr Phe Tyr His Ala Pro Arg Thr Lys Asn Tyr Gly Tyr Val
 20 25 30
 Tyr Val Gly Thr Gly Glu Lys Asn Met Asp Leu Pro Phe Met Leu *
 35 40 45 47

<210> 1453
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1453
 Met Ile Thr Val Gln Phe Ser Tyr Thr Ala Val Lys Trp Leu Leu Asn
 1 5 10 15
 Cys Phe Val Leu Ile Leu Tyr Val Ile Leu Ser Ile Leu Phe Gln Val
 20 25 30
 Ser Gln Lys Asn Ser Ser Lys Leu Gly Arg Phe Lys Asn Leu Phe Asn
 35 40 45
 His Lys Glu Cys Ser Lys Leu Leu Phe Asn Arg Asn Gln Ala Gln Thr
 50 55 60
 Leu Glu Leu Thr Ala Asp Arg Ile Arg Phe Gly Leu Phe Pro Glu Trp
 65 70 75 80
 Lys His Phe Ser His Thr Thr Ser Leu Cys Thr Ala Lys Met Leu Ala
 85 90 95
 Tyr Pro Leu Trp Phe Pro Ser Phe Ser Leu Ala Ser Gln Arg Asn Leu
 100 105 110
 Pro Pro His Pro Leu Tyr Tyr Ile Phe Tyr *
 115 120 122

<210> 1454
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1454
 Met Arg Glu Trp Trp Val Gln Val Gly Leu Leu Ala Val Pro Leu Leu
 1 5 10 15
 Ala Ala Tyr Leu His Ile Pro Pro Pro Gln Leu Ser Pro Ala Leu His
 20 25 30
 Ser Trp Lys Ser Ser Gly Lys Phe Phe Thr Tyr Lys Gly Leu Arg Ile
 35 40 45
 Phe Tyr Gln Asp Ser Val Gly Val Val Gly Ser Pro Glu Ile Val Val

50	55	60
Leu Leu His Gly Phe Pro Thr Ser Ser Tyr Asp Trp Tyr Lys Ile Trp		
65	70	75
Glu Gly Leu Thr Leu Arg Phe His Arg Val Ile Ala Leu Asp Phe Leu		80
	85	90
Gly Phe Gly Phe Ser Asp Lys Pro Arg Pro His His Tyr Ser Ile Phe		95
	100	105
Glu Gln Ala Ser Ile Val Glu Ala Leu Leu Arg His Leu Gly Leu Gln		110
	115	120
Asn Arg Arg Ile Asn Leu Leu Ser His Asp Tyr Gly Asp Ile Val Ala		125
	130	135
Gln Glu Leu Leu Tyr Arg Tyr Lys Gln Asn Arg Ser Gly Arg Leu Thr		140
145	150	155
Ile Lys Ser Leu Cys Leu Ser Asn Gly Gly Ile Phe Pro Glu Thr His		160
	165	170
Arg Pro Leu Leu Leu Gln Lys Leu Leu Lys Asp Gly Gly Val Leu Ser		175
	180	185
Pro Ile Leu Thr Arg Leu Met Asn Phe Phe Val Phe Ser Arg Gly Leu		190
	195	200
Thr Pro Val Phe Gly Pro Tyr Thr Arg Pro Ser Glu Ser Glu Leu Trp		205
	210	215
Asp Met Trp Ala Gly Ile Arg Asn Asn Asp Gly Asn Leu Val Ile Asp		220
225	230	235
Ser Leu Leu Gln Tyr Ile Asn Gln Arg Lys Lys Phe Arg Arg Arg Trp		240
	245	250
Val Gly Ala Leu Ala Ser Val Thr Ile Pro Ile His Phe Ile Tyr Gly		255
	260	265
Pro Leu Asp Pro Val Asn Pro Tyr Pro Glu Phe Leu Glu Leu Tyr Arg		270
	275	280
Lys Thr Leu Pro Arg Ser Thr Val Ser Ile Leu Asp Asp His Ile Ser		285
	290	295
His Tyr Pro Gln Leu Glu Asp Pro Met Gly Phe Leu Asn Ala Tyr Met		300
305	310	315
Gly Phe Ile Asn Ser Phe *		320
	325	326

<210> 1455
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1455
Met Ile Leu Leu Lys Val Cys Ser Ala Ala Ser Leu Leu Gly Glu Gly
1 5 10 15
Phe Met Asn Gln Val Thr Ser Thr Asn Lys Ala Ser Leu Ser Leu Leu
20 25 30
Ser Leu Thr Met Lys Val Ala Val Asn Lys Gly Lys Lys Glu Arg Glu
35 40 45
Leu Phe Ile Pro Phe Gln Phe Gln *
50 55 56

<210> 1456
 <211> 48
 <212> PRT

<213> Homo sapiens

<400> 1456

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Met His Cys Ile Phe Ser Cys Leu Leu Trp Cys Ile Gln Leu Pro Ser
 1           5           10           15
Met Leu Ser Val Leu Lys Thr Gln Pro Ser Lys Asn His Pro Leu Trp
           20           25           30
Pro Cys Lys Tyr Ala Tyr Asn Ile Phe Phe Phe Leu Cys Ile Ile *
           35           40           45           47

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<210> 1457

<211> 459

<212> PRT

<213> Homo sapiens

<400> 1457

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Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1           5           10           15
Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
           20           25           30
Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
           35           40           45
Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
           50           55           60
Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
           65           70           75           80
Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
           85           90           95
Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln
           100           105           110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
           115           120           125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
           130           135           140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
           145           150           155           160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
           165           170           175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
           180           185           190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
           195           200           205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
           210           215           220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
           225           230           235           240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
           245           250           255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
           260           265           270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
           275           280           285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
           290           295           300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu

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305					310					315				320	
Gln	Arg	Glu	Trp	Leu	Gly	Asn	Arg	Glu	Ala	Leu	Ile	Gln	Phe	Leu	Glu
				325					330					335	
Gln	Val	His	Gln	Gly	Ile	Lys	Gly	Met	Val	Leu	Asp	Glu	Asn	Tyr	Asn
			340					345					350		
Asn	Leu	Ala	Asn	Ala	Val	Ile	Ser	Val	Ser	Gly	Ile	Asn	His	Asp	Val
		355					360					365			
Thr	Ser	Gly	Asp	His	Gly	Asp	Tyr	Phe	Arg	Leu	Leu	Leu	Pro	Gly	Ile
		370				375					380				
Tyr	Thr	Val	Ser	Ala	Thr	Ala	Pro	Gly	Tyr	Asp	Pro	Glu	Thr	Val	Thr
385					390					395					400
Val	Thr	Val	Gly	Pro	Ala	Glu	Pro	Thr	Leu	Val	Asn	Phe	His	Leu	Lys
			405						410					415	
Arg	Ser	Ile	Pro	Gln	Val	Ser	Pro	Val	Arg	Arg	Ala	Pro	Ser	Arg	Arg
			420					425					430		
His	Gly	Val	Arg	Ala	Lys	Val	Gln	Pro	Gln	Pro	Arg	Lys	Lys	Glu	Met
		435					440					445			
Glu	Met	Arg	Gln	Leu	Gln	Arg	Gly	Pro	Ala	*					
	450					455			458						

<210> 1458

<211> 463

<212> PRT

<213> Homo sapiens

<400> 1458

Met	Ala	Arg	Val	Leu	Gly	Ala	Pro	Val	Ala	Leu	Gly	Leu	Trp	Ser	Leu
1				5					10					15	
Cys	Trp	Ser	Leu	Ala	Ile	Ala	Thr	Pro	Leu	Pro	Pro	Thr	Ser	Ala	His
			20					25					30		
Gly	Asn	Val	Ala	Glu	Gly	Glu	Thr	Lys	Pro	Asp	Pro	Asp	Val	Thr	Glu
		35					40					45			
Arg	Cys	Ser	Asp	Gly	Trp	Ser	Phe	Asp	Ala	Thr	Thr	Leu	Asp	Asp	Asn
	50					55					60				
Gly	Thr	Met	Leu	Phe	Phe	Lys	Gly	Glu	Phe	Val	Trp	Lys	Ser	His	Lys
65					70					75					80
Trp	Asp	Arg	Glu	Leu	Ile	Ser	Glu	Arg	Trp	Lys	Asn	Phe	Pro	Ser	Pro
			85						90					95	
Val	Asp	Ala	Ala	Phe	Arg	Gln	Gly	His	Asn	Ser	Val	Phe	Leu	Ile	Lys
		100						105					110		
Gly	Asp	Lys	Val	Trp	Val	Tyr	Pro	Pro	Glu	Lys	Lys	Glu	Lys	Gly	Tyr
		115					120					125			
Pro	Lys	Leu	Leu	Gln	Asp	Glu	Phe	Pro	Gly	Ile	Pro	Ser	Pro	Leu	Asp
	130					135					140				
Ala	Ala	Val	Glu	Cys	His	Arg	Gly	Glu	Cys	Gln	Ala	Glu	Gly	Val	Leu
145					150					155					160
Phe	Phe	Gln	Gly	Asp	Arg	Glu	Trp	Phe	Trp	Asp	Leu	Ala	Thr	Gly	Thr
			165						170					175	
Met	Lys	Glu	Arg	Ser	Trp	Pro	Ala	Val	Gly	Asn	Cys	Ser	Ser	Ala	Leu
			180					185					190		
Arg	Trp	Leu	Gly	Arg	Tyr	Tyr	Cys	Phe	Gln	Gly	Asn	Gln	Phe	Leu	Arg
		195					200					205			
Phe	Asp	Pro	Val	Arg	Gly	Glu	Val	Pro	Pro	Arg	Tyr	Pro	Arg	Asp	Val
	210					215					220				
Arg	Asp	Tyr	Phe	Met	Pro	Cys	Pro	Gly	Arg	Gly	His	Gly	His	Arg	Asn
225					230					235					240

Gly Thr Gly His Gly Asn Ser Thr His His Gly Pro Glu Tyr Met Arg
 245 250 255
 Cys Ser Pro His Leu Val Leu Ser Ala Leu Thr Ser Asp Asn His Gly
 260 265 270
 Ala Thr Tyr Ala Phe Ser Gly Thr His Tyr Trp Arg Leu Asp Thr Ser
 275 280 285
 Arg Asp Gly Trp His Ser Trp Pro Ile Ala His Gln Trp Pro Gln Gly
 290 295 300
 Pro Ser Ala Val Asp Ala Ala Phe Ser Trp Glu Glu Lys Leu Tyr Leu
 305 310 315 320
 Val Gln Gly Thr Gln Val Tyr Val Phe Leu Thr Lys Gly Gly Tyr Thr
 325 330 335
 Leu Val Ser Gly Tyr Pro Lys Arg Leu Glu Lys Glu Val Gly Thr Pro
 340 345 350
 His Gly Ile Ile Leu Asp Ser Val Asp Ala Ala Phe Ile Cys Pro Gly
 355 360 365
 Ser Ser Arg Leu His Ile Met Ala Gly Arg Arg Leu Trp Trp Leu Asp
 370 375 380
 Leu Lys Ser Gly Ala Gln Ala Thr Trp Thr Glu Leu Pro Trp Pro His
 385 390 395 400
 Glu Lys Val Asp Gly Ala Leu Cys Met Glu Lys Ser Leu Gly Pro Asn
 405 410 415
 Ser Cys Ser Ala Asn Gly Pro Gly Leu Tyr Leu Ile His Gly Pro Asn
 420 425 430
 Leu Tyr Cys Tyr Ser Asp Val Glu Lys Leu Asn Ala Ala Lys Ala Leu
 435 440 445
 Pro Gln Pro Gln Asn Val Thr Ser Leu Leu Gly Cys Thr His *
 450 455 460 462

<210> 1459

<211> 187

<212> PRT

<213> Homo sapiens

<400> 1459

Met Gln Pro Ile Val Ala Lys Ala Leu Val Val Leu Leu Glu Val His
 1 5 10 15
 Pro Leu Gln Asp Gln Ala Glu Ser Gly Arg Leu Gly His Val His Leu
 20 25 30
 Leu Cys Ala Pro Ala Ala Leu Gln His Ala Leu Arg Gly Ile Thr Leu
 35 40 45
 His Asn Gly His His Gln Ala Asp His Leu Pro Asp Leu Met His His
 50 55 60
 Glu Ala Leu Ala Leu His Pro Asp His Arg Lys Leu Gln Ala Leu Pro
 65 70 75 80
 His Lys Gly Phe Leu Ala Val His Leu Gln Asp Val Ala Ala Gly Thr
 85 90 95
 Gly Ile Leu Arg Pro Leu Leu Arg Gly Glu Ile Val Glu Val Val Arg
 100 105 110
 Ala Leu Val Ala Gly Gln Glu Pro Val Asp Leu Leu Gln Arg Leu Gly
 115 120 125
 Ala Gln Ala Val Gly Leu Ile Leu Asn Val Pro Val Leu Val Arg Lys
 130 135 140
 Gly Lys Arg Gly Gln Gln Val Ala Ile Gly Pro Gly Ile Thr Ser Val
 145 150 155 160
 Leu Gly Val Lys Pro Ala Arg Asp Pro Leu Gln Ser Gln Asn Pro Asn

165 170 175
 Val Arg Gly Lys Val Ala Val Asp Leu Phe *
 180 185 186

<210> 1460
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 1460
 Met Lys Phe Ala Leu Phe Thr Ser Gly Val Ala Leu Thr Leu Ser Phe
 1 5 10 15
 Val Phe Met Tyr Ala Lys Cys Glu Asn Glu Pro Phe Ala Gly Val Ser
 20 25 30
 Glu Ser Tyr Asn Gly Thr Gly Glu Leu Gly Asn Leu Ile Ala Pro Cys
 35 40 45
 Asn Ala Asn Cys Asn Cys Ser Arg Ser Tyr Tyr Tyr Pro Val Cys Gly
 50 55 60
 Asp Gly Val Gln Tyr Phe Ser Pro Cys Phe Ala Gly Cys Ser Asn Pro
 65 70 75 80
 Val Ala His Arg Lys Pro Lys Val Tyr Tyr Asn Cys Ser Cys Ile Glu
 85 90 95
 Arg Lys Thr Glu Ile Thr Ser Thr Ala Glu Thr Phe Gly Phe Glu Ala
 100 105 110
 Asn Ala Gly Lys Cys Glu Thr His Cys Ala Lys Leu Ala Ile Phe Leu
 115 120 125
 Cys Ile Val Phe Ile Gly Asn Ile Phe Thr Phe Met Ala Arg Ser Pro
 130 135 140
 Ile Thr Gly Ala Ile Pro Arg Gly Gly Asn His Arg Gln Arg Pro Pro
 145 150 155 160
 Thr Leu Gly Ile Gln Phe Met Ala Leu Arg Thr Leu Trp Thr Thr Pro
 165 170 175
 Trp Pro Ser Lys Thr Gly Cys Pro Ile His Gln Pro Gly Ser Leu Trp
 180 185 190
 Glu Lys Leu Gly Trp Arg Pro Leu Lys Thr Leu Arg Arg Pro Lys Pro
 195 200 205
 Ser Trp Asn Ala Leu Leu Ala Leu Ala His Pro Arg Ser Phe Gln
 210 215 220 223

<210> 1461
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1461
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60

Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
 65 70 75 80
 Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
 85 90 95
 His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp
 100 105 110
 Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
 115 120 125
 Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
 130 135 140
 Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
 145 150 155 160
 Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
 165 170 175
 Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
 180 185 190
 His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
 195 200 205
 His *
 209

<210> 1462
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1462
 Met Ala Val Arg Val Leu Trp Gly Gly Leu Ser Leu Leu Arg Val Leu
 1 5 10 15
 Trp Cys Leu Leu Pro Gln Thr Gly Tyr Val His Pro Asp Glu Phe Phe
 20 25 30
 Gln Ser Pro Glu Val Met Ala Gly Lys Thr Pro His Val Trp Leu Arg
 35 40 45
 Gln Ala Ala Ala Glu Ser Ala *
 50 55

<210> 1463
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1463
 Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val Tyr
 1 5 10 15
 Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Cys
 20 25 30
 Pro Gly Val Cys Gly Cys Gly Pro Ala Gly Ser Cys Ser Pro Pro Ser
 35 40 45
 Cys Cys Trp Pro Ser Ser Arg Gly Gly Gln Pro Gly Ser Arg Leu Ala
 50 55 60
 Pro Leu
 65 66

<210> 1464
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1464
 Met Val Trp Arg Arg Leu Leu Arg Lys Arg Trp Val Leu Ala Leu Val
 1 5 10 15
 Phe Gly Leu Ser Leu Val Tyr Phe Leu Ser Ser Thr Phe Lys Gln Glu
 20 25 30
 Glu Arg Ala Val Arg Asp Arg Asn Leu Leu Gln Val His Asp His Asn
 35 40 45
 Gln Pro Ile Pro Trp Lys Val Gln Phe Asn Leu Gly Asn Ser Ser Arg
 50 55 60
 Pro Ser Asn Gln Cys Arg Asn Ser Ile Gln Gly Lys His Leu Ile Thr
 65 70 75 80
 Asp Glu Leu Gly Tyr Val Cys Glu Arg Lys Asp Leu Leu Val Asn Gly
 85 90 95
 Cys Cys Asn Val Asn Val Pro Ser Thr Lys Gln Tyr Cys Cys Asp Gly
 100 105 110
 Cys Trp Pro Asn Gly Cys Cys Ser Ala Tyr Glu Tyr Cys Val Ser Cys
 115 120 125
 Cys Leu Gln Pro Asn Lys Gln Leu Leu Leu Glu Arg Phe Leu Asn Arg
 130 135 140
 Ala Ala Val Ala Phe Gln Asn Leu Phe Met Ala Val Glu Asp His Phe
 145 150 155 160
 Glu Leu Cys Leu Ala Lys Cys Arg Thr Ser Ser Gln Ser Val Gln His
 165 170 175
 Glu Asn Thr Tyr Arg Asp Pro Ile Ala Lys Tyr Cys Tyr Gly Glu Ser
 180 185 190
 Pro Pro Glu Leu Phe Pro Ala *
 195 199

<210> 1465
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1465
 Met Gln Leu Ile Arg Arg Ser His Asn Arg His Trp Phe Arg Ser Ala
 1 5 10 15
 Ile Thr Phe Leu Met Cys Lys Gly Ile Thr Leu Leu Trp Leu Trp Lys
 20 25 30
 Leu Leu Thr Gly Asn Asp Cys Ile Glu Tyr Ile Arg Lys *
 35 40 45

<210> 1466
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1466

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Met Arg Leu Leu Phe Ser Ser Gln Val Asn Ser Lys Arg Leu Thr Ala
 1          5          10          15
Ser Arg Ala Phe Leu Val Leu Val Pro Ala His Leu Ser Tyr Leu Leu
          20          25          30
Ala Leu Pro Ser Ile Pro Ala Thr Arg Gly Phe Trp Phe Lys Asp Thr
          35          40          45
Val Phe Leu Ser Cys Ser Ala *
          50          55

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<210> 1467

<211> 366

<212> PRT

<213> Homo sapiens

<400> 1467

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Met Arg Gly Gln Val Val Thr Leu Ile Leu Leu Leu Leu Lys Val
 1          5          10          15
Tyr Gln Gly Lys Gly Cys Gln Gly Ser Ala Asp His Val Val Ser Ile
          20          25          30
Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val
          35          40          45
Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His
          50          55          60
His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn
          65          70          75          80
Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala
          85          90          95
Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
          100          105          110
Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
          115          120          125
Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly
          130          135          140
Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val
          145          150          155          160
Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn
          165          170          175
Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr
          180          185          190
Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn
          195          200          205
Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro
          210          215          220
Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu
          225          230          235          240
Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu
          245          250          255
Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu
          260          265          270
Lys Thr Arg Arg Asn His Glu Gln Glu Gln Thr Phe Pro Gly Gly Gly
          275          280          285
Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser
          290          295          300
Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys

```

```

305          310          315          320
Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile
          325          330          335
Tyr Glu Val Ile Gly Lys Ser Gln Pro Lys Ala Gln Asn Pro Ala Arg
          340          345          350
Leu Ser Arg Lys Glu Leu Glu Asn Phe Asp Val Tyr Ser *
          355          360          365

```

```

<210> 1468
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1468
Met Thr Asp Phe Phe Leu Cys Ile His Ser Phe Tyr Leu Cys Val Leu
 1          5          10          15
Leu Gln Ala Ser Leu Asp Met Leu Ser Val Lys Ser Phe Ser Phe Lys
          20          25          30
Val Leu Cys Leu Met Lys Ala Lys Glu Lys Pro Asn Thr Thr Ser Cys
          35          40          45
His Leu Val Ile Asp Ser Asn Ser Thr
          50          55          57

```

```

<210> 1469
<211> 110
<212> PRT
<213> Homo sapiens

```

```

<400> 1469
Met Leu Glu Ile Leu Leu Lys Leu Val Arg Leu Leu Thr Thr Gln Pro
 1          5          10          15
Tyr Leu Thr Leu Phe Gln Ala Val Arg Asn Leu Ala Leu Asn Leu Ser
          20          25          30
Thr Ser Ser Gly Ser Leu Gly Pro Ala Pro Gly Glu Pro Arg Ala Gly
          35          40          45
Pro Leu Ala Pro Glu Gly Pro Arg Pro Leu Gly Ser Gly Pro Leu Gly
          50          55          60
Pro Arg Gly Leu Arg Ala Ser Gly Arg Arg Arg Ala Ser Ser Gly Leu
          65          70          75          80
Leu Leu Arg Tyr Cys Ala Ala Ala Gly Asp Thr Glu Phe Met Asp Ala
          85          90          95
Pro Gly Gly Arg Thr Glu Gly Pro Gly Gly Gly Leu Arg Pro
          100          105          110

```

```

<210> 1470
<211> 59
<212> PRT
<213> Homo sapiens

```

```

<400> 1470

```

```

Met Met Cys Arg Cys Met Cys Ala Cys Val Cys Ala Pro Val Cys Val
 1          5          10          15
His Met His Gly Leu Ala Pro Ala Pro Ala Ile Trp Ile Glu Gln Phe
          20          25          30
Trp Val Glu Asn Phe Phe Ser Pro Phe Leu Lys Val Ser Phe Tyr Ser
          35          40          45
Leu Pro Val Cys Ile Glu Lys Ser Ser Ile *
          50          55          58

```

```

<210> 1471
<211> 123
<212> PRT
<213> Homo sapiens

```

```

<400> 1471
Met Met His Phe Leu Thr Gly Gly Trp Lys Val Leu Phe Ala Cys Val
 1          5          10          15
Pro Pro Thr Glu Tyr Cys His Gly Trp Ala Cys Phe Gly Val Ser Ile
          20          25          30
Leu Val Ile Gly Leu Leu Thr Ala Leu Ile Gly Asp Leu Ala Ser His
          35          40          45
Phe Gly Cys Thr Val Gly Leu Lys Asp Ser Val Asn Ala Val Val Phe
          50          55          60
Val Ala Leu Gly Thr Ser Ile Pro Gly Asn Thr Leu Gly Asp Phe Gly
          65          70          75          80
Gly Val Gly Ser Gln Met Ser Gln Ala Gly Ala Thr Gln Asp Pro Ala
          85          90          95
Glu Met Arg His Val Arg Gln Gln Gly Gly Ala Ala Gly Pro Val
          100          105          110
Arg Arg Arg Val His Arg Glu Arg Asp Pro Leu
          115          120          123

```

```

<210> 1472
<211> 316
<212> PRT
<213> Homo sapiens

```

```

<400> 1472
Met Val Ser Ala Ser Gly Thr Ser Phe Phe Lys Gly Met Leu Leu Gly
 1          5          10          15
Ser Ile Ser Trp Val Leu Ile Thr Met Phe Gly Gln Ile His Ile Arg
          20          25          30
His Arg Gly Gln Thr Gln Asp His Glu His His His Leu Arg Pro Pro
          35          40          45
Asn Arg Asn Asp Phe Leu Asn Thr Ser Lys Val Ile Leu Leu Glu Leu
          50          55          60
Ser Lys Ser Ile Arg Val Phe Cys Ile Ile Phe Gly Glu Ser Glu Asp
          65          70          75          80
Glu Ser Tyr Trp Ala Val Leu Lys Glu Thr Trp Thr Lys His Cys Asp
          85          90          95
Lys Ala Glu Leu Tyr Asp Thr Lys Asn Asp Asn Leu Phe Asn Ile Glu
          100          105          110
Ser Asn Asp Arg Trp Val Gln Met Arg Thr Ala Tyr Lys Tyr Val Phe

```

	115		120		125	
Glu	Lys	Asn	Gly	Asp	Asn	Tyr
130					135	
Thr	Phe	Ala	Val	Ile	Glu	Asn
145					150	
Ala	Ser	Gln	Pro	Phe	Tyr	Leu
					165	
Glu	Tyr	Val	Thr	Val	Glu	Gly
					180	
Lys	Arg	Leu	Asn	Arg	Leu	Leu
					195	
Ser	Val	Ile	Trp	Lys	Leu	Ser
210					215	
Lys	Tyr	Ala	Gly	Val	His	Ala
225					230	
Asp	Val	Phe	Asn	Thr	Lys	Pro
					245	
Ser	Asn	Asn	Pro	Gln	Gln	Val
					260	
Ile	Thr	Phe	Asn	Gly	Leu	Thr
					275	
Gly	Leu	Tyr	Arg	Leu	Arg	Ala
290					295	
Val	Phe	Leu	Pro	Pro	Val	Gly
305					310	

<210> 1473
 <211> 65
 <212> PRT
 <213> Homo sapiens

	<400> 1473	
Met	Gln	Cys
1		
Ala	Arg	Gln
Pro	Ala	Gly
Ser	Pro	Ala

<210> 1474
 <211> 55
 <212> PRT
 <213> Homo sapiens

	<400> 1474	
Met	Ile	Phe
1		
Gly	Ser	Leu

Glu Asn Leu Ile Phe Glu Leu Asn Gly Tyr Glu Leu Asn Ser Thr Trp
 35 40 45
 Phe Gly Trp Leu Asn Thr *
 50 54

<210> 1475
 <211> 128
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(128)
 <223> Xaa = any amino acid or nothing

<400> 1475
 Met Lys Phe Gln Leu Phe Leu Ser Tyr Val Phe Ile Thr Gln Val Phe
 1 5 10 15
 Ser Arg Pro Phe Gln Ser Asn Leu Gly Ser Leu Thr Pro Ala Ser Ser
 20 25 30
 Gln Ile Pro Leu Gln Leu Pro Lys Ala Leu Cys Val Arg Cys Leu Asn
 35 40 45
 Thr Val Xaa Xaa Xaa Xaa Thr Gly Phe Gly Lys Phe Gln Ile Thr
 50 55 60
 Ile Gln Ser Pro Gly Gly Pro Leu Val Leu Ala Arg Pro Trp Ala Ser
 65 70 75 80
 Lys Phe Pro Ser Pro Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Met
 85 90 95
 Gly Gly Lys Thr Phe Ala Tyr Gly Arg Ile Asn Pro Thr Arg Pro Ala
 100 105 110
 Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Ala Ser Leu Asn Pro Thr
 115 120 125 128

<210> 1476
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1476
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60
 Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
 65 70 75 80
 Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
 85 90 95
 His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp

```

      100      105      110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
      115      120      125
Ala Gln Leu Gly Ser Leu Pro Pro Asp Pro Arg Thr Thr His Arg
      130      135      140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
      145      150      155      160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
      165      170      175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
      180      185      190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
      195      200      205
His *
209

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```

<210> 1477
<211> 57
<212> PRT
<213> Homo sapiens

```

```

      <400> 1477
Met His Thr Cys Gln Ile Tyr Ile Tyr Ser Thr Asn Val Thr Phe Leu
  1      5      10      15
Phe Phe Val Leu Asp Val Arg Ala Cys Ser Tyr Val Arg Tyr Leu His
      20      25      30
Lys Leu Leu His Tyr Phe Phe Leu Cys Asn Thr Phe Leu Phe Val Tyr
      35      40      45
Val Val Gln Ile Tyr Phe Phe Pro *
      50      55      56

```

```

<210> 1478
<211> 97
<212> PRT
<213> Homo sapiens

```

```

      <400> 1478
Met Arg Ile Trp Ser Arg Ala Val Gly Asp Gly Pro Ala Ala Val Cys
  1      5      10      15
Cys Pro Leu Arg Ser Trp Cys Leu Leu Trp Ala Leu Asp Ser Leu
      20      25      30
Asp Pro Ala Ala Val Thr Thr His Ala Ser Ala Met Leu Ser Gly Val
      35      40      45
Phe Thr Pro Pro Phe Val Ser Ala Leu Pro Val Gln Trp Met Gln Met
      50      55      60
Pro Val Leu Ser Phe Leu Ser Leu Thr Gly Ser Ser Val Tyr Val His
      65      70      75      80
Met Ala Leu Leu Ser Gly His Gln Gly Ser Asp Thr Cys Ser Gly Leu
      85      90      95      96
*

```


<210> 1479
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1479
 Met Leu Ser Ile Ser Tyr Phe Ser Asn Ser Leu Met Leu Arg Leu Val
 1 5 10 15
 Pro Leu Ala Ala Tyr Val Leu Ser Tyr Leu Ile Cys Ser Val Leu Leu
 20 25 30
 His Ile Asn Gln Thr Thr Val Thr Thr Tyr Arg Gly Arg Lys Gln Arg
 35 40 45
 Lys Lys Ile Gln Phe Ala Thr Gly Asn His Gln Ser Ala Gln Ser Tyr
 50 55 60
 Ser Glu Leu Leu Ser Leu Ser Leu Ser Phe Ser Ser Leu Leu Ser Pro
 65 70 75 80
 Val Phe Ser Leu Pro Ser Trp Ser Leu Pro Ser Leu Pro Pro Phe Phe
 85 90 95
 Ser His Ser Pro His Gln Lys Gly Ile Met Met Val Pro Arg Ser Val
 100 105 110 112
 *

<210> 1480
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1480
 Met Arg Leu Ser Val Cys Leu Leu Leu Leu Thr Leu Ala Leu Cys Cys
 1 5 10 15
 Tyr Arg Ala Asn Ala Val Val Cys Gln Ala Leu Gly Ser Glu Ile Thr
 20 25 30
 Gly Phe Leu Leu Ala Gly Lys Pro Val Phe Lys Phe Gln Leu Ala Lys
 35 40 45
 Phe Lys Ala Pro Leu Glu Ala Val Ala Ala Lys Met Glu Val Lys Lys
 50 55 60
 Cys Val Asp Thr Met Ala Tyr Glu Lys Arg Val Leu Ile Thr Lys Thr
 65 70 75 80
 Leu Gly Lys Ile Ala Glu Lys Cys Asp Arg *
 85 90

<210> 1481
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1481
 Met Pro Gly Ser Ile Leu Ser Asn Leu His Val Leu Leu Lys Tyr Leu
 1 5 10 15
 Phe Thr Phe Ala Glu Val Phe Leu Val Pro Gly Pro Phe Asn Val Leu

<210> 1484
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 1484
 Met Pro Gln Leu Ser Leu Ser Trp Leu Gly Leu Gly Gln Val Ala Ala
 1 5 10 15
 Phe Pro Trp Leu Leu Leu Leu Leu Ala Gly Ala Ser Arg Leu Leu Ala
 20 25 30
 Gly Phe Leu Ala Trp Thr Tyr Ala Phe Tyr Asp Asn Cys Arg Arg Leu
 35 40 45
 Gln Tyr Phe Pro Gln Pro Pro Lys Gln Lys Trp Phe Trp Gly Gln Pro
 50 55 60
 Gly Pro Pro Ala Ile Ala Pro Lys Asp Asp Leu Ser Ile Arg Phe Leu
 65 70 75 80
 Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
 85 90 95
 Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
 100 105 110
 Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp
 115 120 125
 Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe
 130 135 140
 Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
 145 150 155 160
 Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
 165 170 175
 Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu
 180 185 190
 Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe
 195 200 205
 His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg
 210 215 220
 Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys
 225 230 235 240
 Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu
 245 250 255
 Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala
 260 265 270
 Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly
 275 280 285
 Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu
 290 295 300
 Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
 305 310 315 320
 Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
 325 330 335
 Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
 340 345 350
 Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
 355 360 365
 Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
 370 375 380
 Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu

```

385          390          395          400
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly
          405          410          415
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val
          420          425          430
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr
          435          440          445
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu
          450          455          460
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *
465          470          475 476

```

```

<210> 1485
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1485
Met Ala Cys Cys Leu Phe Leu Asn Gly Ser Trp Leu Ser Met Ala Leu
 1          5          10          15
Lys Phe Phe Asn Cys Trp Gly Lys Lys Ile Lys Arg Ile Ile Phe Tyr
          20          25          30
Val Lys Ile Met Lys Phe Lys Phe Gln Cys Pro Gln Ile Asn Thr Ala
          35          40          45
Thr Tyr Ile His Leu His Gly Cys Phe Cys Thr Ser Met Ala Glu Leu
          50          55          60
Ser Ser *
65 66

```

```

<210> 1486
<211> 93
<212> PRT
<213> Homo sapiens

```

```

<400> 1486
Met Gly Ser Ser Val Leu Ser Ile Trp Ile Leu Ser Pro Ser Ile Tyr
 1          5          10          15
Pro Ile Leu Ser Pro Leu Ala Met Pro Cys Leu Ser Arg Thr Asp Leu
          20          25          30
Ile Arg Val Arg Arg Ile Gln Gly Ala Trp Pro Ser Glu Gly Thr Ala
          35          40          45
Ser Ser Ile Arg Gly Trp Val Leu Thr Lys Leu Arg Met Ser Ser Gly
          50          55          60
Lys Ala Leu Glu Ala Leu Tyr Cys Ile Pro Gly Ala Ala Gln His Pro
          65          70          75          80
Gly Leu Gly Val Thr Arg Val Trp Ser Gly Arg Thr *
          85          90          92

```

```

<210> 1487
<211> 88
<212> PRT

```

<213> Homo sapiens

<400> 1487

```

Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe Leu Ala Gly Phe Pro
 1           5           10           15
Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn Ser Pro Phe Tyr Tyr
          20           25           30
Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile Cys Ala Gly Val Leu
          35           40           45
Cys Ala Met Gly Ile Ile Ile Val Met Ser Ala Lys Cys Lys Cys Lys
          50           55           60
Phe Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile
          65           70           75           80
Thr Pro Gly Ser Ala Gln Ser *
          85           87

```

<210> 1488

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1488

```

Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe Leu Phe Leu Phe
 1           5           10           15
Asn Leu Ile Phe Phe Ile Leu Gly Ala Val Ile Leu Gly Phe Gly Val
          20           25           30
Trp Ile Leu Ala Asp Lys Ser Ser Phe Ile Ser Val Leu Gln Thr Ser
          35           40           45
Ser Ser Ser Leu Arg Met Gly Ala Tyr Val Phe Ile Gly Val Gly Ala
          50           55           60
Val Thr Met Leu Met Gly Phe Leu Gly Cys Ile Gly Ala Val Asn Glu
          65           70           75           80
Val Arg Cys Leu Leu Gly Leu Tyr Phe Ala Phe Leu Leu Leu Ile Leu
          85           90           95
Ile Ala Gln Val Thr Ala Gly Ala Leu Phe Tyr Phe Asn Met Gly Lys
          100          105          110
Leu Lys Gln Glu Met Gly Gly Ile Val Thr Glu Leu Ile Arg Asp Tyr
          115          120          125
Asn Ser Ser Arg Glu Asp Ser Leu Gln Asp Ala Trp Asp Tyr Val Gln
          130          135          140
Ala Gln Val Lys Cys Cys Gly Trp Val Ser Phe Tyr Asn Trp Thr Asp
          145          150          155          160
Asn Ala Glu Leu Met Asn Arg Pro Glu Val Thr Tyr Pro Cys Ser Cys
          165          170          175
Glu Val Lys Gly Glu Glu Asp Asn Ser Leu Ser Val Arg Lys Gly Phe
          180          185          190
Cys Glu Ala Pro Gly Asn Arg Thr Gln Ser Gly Asn His Pro Glu Asp
          195          200          205
Trp Pro Val Tyr Gln Glu Gly Cys Met Glu Lys Val Gln Ala Trp Leu
          210          215          220
Gln Glu Asn Leu Gly Ile Ile Leu Gly Val Gly Val Gly Val Ala Ile
          225          230          235          240
Ile Glu Leu Leu Gly Met Val Leu Ser Ile Cys Leu Cys Arg His Val
          245          250          255
His Ser Glu Asp Tyr Ser Lys Val Pro Lys Tyr *
```

260

265

267

<210> 1489

<211> 832

<212> PRT

<213> Homo sapiens

<400> 1489

```

Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp
 1          5          10          15
Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln
 20          25          30
Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro
 35          40          45
Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Ala Asp Pro Lys Glu
 50          55          60
Leu Ile Lys Met Val Thr Arg His Val Thr Arg His Glu His Glu Ala
 65          70          75          80
Trp Pro Glu Asp Leu Ile Ser Leu Thr Lys Gln Leu His Cys Tyr Asn
 85          90          95
Glu Arg Leu Leu Asp Phe Thr Gln Ala Gln Ile Leu Gln Gly Leu Arg
100          105          110
Lys Gly Val Asp Val Gln Arg Phe Thr Ala Asp Asp Gln Tyr Lys Arg
115          120          125
Glu Thr Ile Leu Gly Leu Ala Glu Thr Leu Glu Glu Ser Val Tyr Ser
130          135          140
Ile Ala Ile Ser Leu Ala Gln Arg Tyr Ser Val Ser Arg Trp Glu Val
145          150          155          160
Phe Met Thr His Leu Glu Phe Leu Phe Thr Asp Ser Gly Leu Ser Thr
165          170          175
Leu Glu Ile Glu Asn Arg Ala Gln Asp Leu His Leu Phe Glu Thr Leu
180          185          190
Lys Thr Asp Pro Glu Ala Phe His Gln His Met Val Lys Tyr Ile Tyr
195          200          205
Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu Gln Tyr Tyr Phe Thr
210          215          220
Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile Lys
225          230          235          240
Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala Ser
245          250          255
Gly Leu Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu
260          265          270
Ala Leu Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys
275          280          285
Leu Val Pro Lys Ile Pro Glu Lys Asp Gly Gln Met Leu Ser Pro Ser
290          295          300
Ser Leu Tyr Thr Ile Trp Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro
305          310          315          320
His Leu Ile Lys Gln Val Pro Gly Ser Ser Pro Glu Trp Leu His Ala
325          330          335
Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg Leu His Pro Gly Asp Leu
340          345          350
Ile Thr Val Val Asp Ala Val Thr Phe Ser Pro Lys Ala Val Thr Lys
355          360          365
Leu Ser Val Glu Ala Arg Lys Glu Met Thr Arg Lys Ala Ile Lys Thr
370          375          380

```

Val	Lys	His	Phe	Ile	Glu	Lys	Pro	Arg	Lys	Arg	Asn	Ser	Glu	Asp	Glu		
385					390					395					400		
Ala	Gln	Glu	Ala	Lys	Asp	Ser	Lys	Val	Thr	Tyr	Ala	Asp	Thr	Leu	Asn		
				405					410					415			
His	Leu	Glu	Lys	Ser	Leu	Ala	His	Leu	Glu	Thr	Leu	Ser	His	Ser	Phe		
			420					425					430				
Ile	Leu	Ser	Leu	Lys	Asn	Ser	Glu	Gln	Glu	Thr	Leu	Gln	Lys	Tyr	Ser		
	435						440					445					
His	Leu	Tyr	Asp	Leu	Ser	Arg	Ser	Glu	Lys	Glu	Lys	Leu	His	Asp	Glu		
	450					455					460						
Ala	Val	Ala	Ile	Cys	Leu	Asp	Gly	Gln	Pro	Leu	Ala	Met	Ile	Gln	Gln		
465					470					475				480			
Leu	Leu	Glu	Val	Ala	Val	Gly	Pro	Leu	Asp	Ile	Ser	Pro	Lys	Asp	Ile		
				485					490					495			
Val	Gln	Ser	Ala	Ile	Met	Lys	Ile	Ile	Ser	Ala	Leu	Ser	Gly	Gly	Ser		
		500						505					510				
Ala	Asp	Leu	Gly	Gly	Pro	Arg	Asp	Pro	Leu	Lys	Val	Leu	Glu	Gly	Val		
	515						520					525					
Val	Ala	Ala	Val	His	Ala	Ser	Val	Asp	Lys	Gly	Glu	Glu	Leu	Val	Ser		
	530				535						540						
Pro	Glu	Asp	Leu	Leu	Glu	Trp	Leu	Arg	Pro	Phe	Cys	Ala	Asp	Asp	Ala		
545					550					555				560			
Trp	Pro	Val	Arg	Pro	Arg	Ile	His	Val	Leu	Gln	Ile	Leu	Gly	Gln	Ser		
				565					570					575			
Phe	His	Leu	Thr	Glu	Glu	Asp	Ser	Lys	Leu	Leu	Val	Phe	Phe	Arg	Thr		
			580					585					590				
Glu	Ala	Ile	Leu	Lys	Ala	Ser	Trp	Pro	Gln	Arg	Gln	Val	Asp	Ile	Ala		
	595						600					605					
Asp	Ile	Glu	Asn	Glu	Glu	Asn	Arg	Tyr	Cys	Leu	Phe	Met	Glu	Leu	Leu		
	610					615					620						
Glu	Ser	Ser	His	His	Glu	Ala	Glu	Phe	Gln	His	Leu	Val	Leu	Leu	Leu		
625					630				635					640			
Gln	Ala	Trp	Pro	Pro	Met	Lys	Ser	Glu	Tyr	Val	Ile	Thr	Asn	Asn	Pro		
				645					650					655			
Trp	Val	Arg	Leu	Ala	Thr	Val	Met	Leu	Thr	Arg	Cys	Thr	Met	Glu	Asn		
			660					665					670				
Lys	Glu	Gly	Leu	Gly	Asn	Glu	Val	Leu	Lys	Met	Cys	Arg	Ser	Leu	Tyr		
	675						680					685					
Asn	Thr	Lys	Gln	Met	Leu	Pro	Ala	Glu	Gly	Val	Lys	Glu	Leu	Cys	Leu		
	690					695					700						
Leu	Leu	Leu	Asn	Gln	Ser	Leu	Leu	Leu	Pro	Ser	Leu	Lys	Leu	Leu	Leu		
705				710						715				720			
Glu	Ser	Arg	Asp	Glu	His	Leu	His	Glu	Met	Ala	Leu	Glu	Gln	Ile	Thr		
				725					730					735			
Ala	Val	Thr	Thr	Val	Asn	Asp	Ser	Asn	Cys	Asp	Gln	Glu	Leu	Leu	Ser		
			740					745					750				
Leu	Leu	Leu	Asp	Ala	Lys	Leu	Leu	Val	Lys	Cys	Val	Ser	Thr	Pro	Phe		
	755						760					765					
Tyr	Pro	Arg	Ile	Val	Asp	His	Leu	Leu	Ala	Ser	Leu	Gln	Gln	Gly	Arg		
	770					775						780					
Trp	Asp	Ala	Glu	Glu	Leu	Gly	Arg	His	Leu	Arg	Glu	Ala	Gly	His	Glu		
785					790					795				800			
Ala	Glu	Ala	Gly	Ser	Leu	Leu	Leu	Ala	Val	Arg	Gly	Thr	His	Gln	Ala		
				805					810					815			
Phe	Arg	Thr	Phe	Ser	Thr	Ala	Leu	Arg	Ala	Ala	Gln	His	Trp	Val	*		
			820					825					830	831			

<210> 1490
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1490
 Met Trp Phe Leu Val Ser Val Val Cys Leu Tyr Gly Ile Gly Glu
 1 5 10 15
 Gly Asn Phe Phe Ser Leu Ala Ser Val Phe Ser Leu Leu Ser Leu Cys
 20 25 30
 Leu His Leu Leu Leu Trp Lys Arg Ala Phe Asp Arg Thr Asp Val Leu
 35 40 45
 Thr Ser Glu Trp Ile Phe *
 50 54

<210> 1491
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1491
 Met Thr Thr Thr Phe Pro Pro Arg Lys Met Val Ala Gln Phe Leu Leu
 1 5 10 15
 Val Ala Gly Asn Val Ala Asn Ile Thr Thr Val Ser Leu Trp Glu Glu
 20 25 30
 Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe Leu Asp Met Ser Gln
 35 40 45
 Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu Arg Lys Met Pro Ser
 50 55 60
 Leu Ser His Leu Asn Leu His Gln Asn Cys Leu Met Thr Leu His Ile
 65 70 75 80
 Arg Glu His Glu Pro Gly Ala Leu Thr Glu Leu Asp Leu Ser His
 85 90 95
 Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly Leu Ala Ser Cys Leu
 100 105 110
 Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn Gln Leu Leu Gly Val
 115 120 125
 Pro Pro Gly Pro Leu Tyr
 130 134

<210> 1492
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1492
 Met Arg Ser Glu Trp Phe Tyr Lys Trp Phe Phe Pro Pro Phe Ala Leu
 1 5 10 15
 His Phe Ser Leu Leu Pro Pro Cys Glu Glu Gly His Val Cys Leu Pro
 20 25 30
 Met Cys His Glu Cys Lys Phe Pro Glu Ala Ser Pro Ala Thr Met Asn
 35 40 45

Cys Glu Ser Ile Lys Pro Leu Phe Leu Ile Asn Tyr Pro Val Ser Asn
 50 55 60
 Lys Ser Leu Leu Ala Thr *
 65 70

<210> 1493
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1493
 Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
 1 5 10 15
 Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
 20 25 30
 Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
 35 40 45
 Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
 50 55 60
 His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
 65 70 75 77

<210> 1494
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1494
 Met Ala Gly Leu Asn Cys Gly Val Ser Ile Ala Leu Leu Gly Val Leu
 1 5 10 15
 Leu Leu Gly Ala Ala Arg Leu Pro Arg Gly Ala Glu Ala Phe Glu Ile
 20 25 30
 Ala Leu Pro Arg Glu Ser Asn Ile Thr Val Leu Ile Lys Leu Gly Thr
 35 40 45
 Pro Thr Leu Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser Lys Arg His
 50 55 60
 Ile Thr Met Leu Ser Ile Lys Ser Gly Glu Arg Ile Val Phe Thr Phe
 65 70 75 80
 Ser Cys Gln Ser Pro Glu Asn His Phe Val Ile Glu Ile Gln Lys Asn
 85 90 95
 Ile Asp Cys Met Ser Gly Pro Cys Pro Phe Gly Glu Val Gln Leu Gln
 100 105 110
 Pro Ser Thr Ser Leu Leu Pro Thr Leu
 115 120 121

<210> 1495
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1495

```

Met Glu Asn Cys Val Gly Glu Arg Thr His Pro Leu Phe Val Val Tyr
 1              5              10              15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Trp
              20              25              30
Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser Ser
              35              40              45
Gly Leu Leu Phe Ala Thr Phe Gln Leu Leu Ser Leu Phe Ser Leu Val
              50              55              60
Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn Thr
              65              70              75              80
Thr Thr Trp Glu Phe Ile Ser Ser His His Val
              85              90 91

```

<210> 1496

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1496

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1              5              10              15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
              20              25              30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
              35              40              45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
              50              55              60
Gln Gly Lys Gly Thr Pro Asp *
              65              70 71

```

<210> 1497

<211> 196

<212> PRT

<213> Homo sapiens

<400> 1497

```

Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Ala Val
 1              5              10              15
Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly
              20              25              30
Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser
              35              40              45
Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val
              50              55              60
Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Cys His Leu
              65              70              75              80
Leu Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp Ile
              85              90              95
Glu Glu Glu Lys Val Glu Lys Ile Glu Leu Asn Asp Ser Val Asn Glu
              100              105              110
Asn Ser Asp Thr Val Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu
              115              120              125

```

Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr
 130 135 140
 Asp Pro Glu Ser Pro Val Thr Pro Ser Thr Pro Gly Glu Pro Ala Ser
 145 150 155 160
 Glu Ser Trp Ala Phe Val Thr Arg Gly Asp Ala Arg Glu Ala Arg Leu
 165 170 175
 Trp Pro Ser Ser Ala Tyr Gly Gly Arg Cys Cys Arg Glu Gly Cys Val
 180 185 190
 Ser Ser Val *
 195

<210> 1498
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1498
 Met Trp Ser Gln Ile Ala Phe Val Arg Ile Pro Phe Cys Phe Ser Leu
 1 5 10 15
 Leu Ser His Ser Asn Ala Trp Phe Val Gln Lys Ala Ala Ser Gln Arg
 20 25 30
 Gln Ala Ser Ile Ser Thr Ala Cys His Cys Pro Ala Glu Ala Gly Gly
 35 40 45
 Glu Arg Ile Thr Val Ser Thr Thr Gly Ala Gln Arg Asn Ala Ala Met
 50 55 60
 Val Pro Asp Leu Gln Ser Pro Arg Arg Ser *
 65 70 74

<210> 1499
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1499
 Met Pro Ser Leu Met Met Val Leu Glu Ala Arg Phe Val Ser Ser Cys
 1 5 10 15
 Leu Ile Phe Pro Ser Arg Ala Met Pro Leu Leu Ser Arg Leu Leu Ala
 20 25 30
 Ser Lys Gly Ser Ser Val Asn Val Leu Val Lys Val Leu Phe Gly Gly
 35 40 45
 Thr Phe Ser Cys Ala Ser Ser Ile Ala Thr Gly Leu Thr *
 50 55 60 61

<210> 1500
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1500
 Met Pro Ile Trp Lys Pro Phe Met Ala Trp Met Ala Ala Trp Ala Leu

```

      1           5           10           15
Ala Val Leu Ser Lys Leu Thr Lys Pro Ile His Leu Leu Trp Met Val
      20           25           30
Ala Arg Ser Ile Asn Thr Leu Glu Glu Met Ile Leu Pro Lys Gly Thr
      35           40           45
Asn Ile Cys Val Ser Ser Val Ser Pro Asn Ser Phe Ser Leu Leu Leu
      50           55           60
Leu Gln Glu Gly Arg Arg Leu Glu Asp Ala Val Arg Asp Gly Arg Asp
      65           70           75           80
Gly Arg Gly Gly Ala His Gly Cys Val Leu Leu Asp Ser Gly Glu Gly
      85           90           95
Arg Met Gln Cys Leu Gly His Ser Arg Ala Leu Ser Trp Val Trp His
      100          105          110
Lys Ala Ile Gly Ile Asp Glu Phe Pro Gly Gln Gly Ala His Leu Glu
      115          120          125
Arg Ala Arg His Leu Pro Ser His Trp *
      130          135          137

```

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<210> 1501
<211> 82
<212> PRT
<213> Homo sapiens

```

```

      <400> 1501
Met Ile Leu Phe Thr Arg Ala Trp Phe Glu Leu Val Thr Leu Val Gln
      1           5           10           15
Phe Ile Ile Gly Ser Gln Met Leu Tyr Pro Tyr Leu His Ile Glu Glu
      20           25           30
Phe Val Ile Arg Lys Leu Pro Val Leu Leu Tyr Arg Lys Ser Val Ile
      35           40           45
Arg Tyr Gln Met Ala Ser Ser Pro Cys Leu Gln Met Phe Lys Gln Tyr
      50           55           60
Cys Gly Trp Ser Arg Lys Ser Leu Arg His Ala Val Lys Cys Arg Ala
      65           70           75           80
Arg *
      81

```

```

<210> 1502
<211> 54
<212> PRT
<213> Homo sapiens

```

```

      <400> 1502
Met Leu Leu Phe Leu Gly Phe Phe Ile Cys Ser Leu Phe Phe Ser Glu
      1           5           10           15
Leu Ser Thr Gly Thr Thr His Ser Leu Glu Ser Tyr Gln Ile Leu Leu
      20           25           30
Ser Lys Phe Phe Arg His Pro Leu Cys Thr Arg Thr Phe Arg Ile Leu
      35           40           45
Pro Pro Phe His Phe *
      50           53

```

<210> 1503
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1503
 Met Gly Trp Pro Pro Ser Leu Trp Val Leu Ala Leu Ala Tyr Cys Cys
 1 5 10 15
 Lys Ala Pro Gln Arg Leu Cys Ser Gly Ser Ser Pro Cys Arg Phe Ser
 20 25 30
 Ser Arg Met Ser Ala Ser Pro Ala Thr Asn Arg Asn Glu Asn Thr Thr
 35 40 45
 Ser Trp Ile Ala Ser Leu His Lys Tyr Val Ile Ser Gln *
 50 55 60 61

<210> 1504
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1504
 Met Trp Lys Gln Ile Ser Pro Ile Gly Asn Leu Val Thr Ala Ile Phe
 1 5 10 15
 Phe Cys Val Leu Cys Gln Gln Arg Tyr Gln Trp Leu Ala Arg Asp Ala
 20 25 30
 Phe Asn Thr Gln Ser Ile Leu Ser Pro Pro Ile Trp Val *
 35 40 45

<210> 1505
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1505
 Met Val Ala Val Ser Leu Leu Cys Pro Trp Pro Ser Ser Trp Asn Arg
 1 5 10 15
 Arg Ser Cys Gly Arg Ser His Arg Asn Leu Gly Leu Phe Thr Ala Phe
 20 25 30
 Leu Ser Val Pro Glu Phe Val Ile Phe Gly Ala Cys Arg Tyr Trp *
 35 40 45 47

<210> 1506
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1506
 Met Trp Leu Leu Gly Pro Leu Cys Leu Leu Leu Ser Ser Ala Ala Glu

```

      1           5           10           15
Ser Gln Leu Leu Pro Gly Asn Asn Phe Thr Asn Glu Cys Asn Ile Pro
      20           25           30
Gly Asn Phe Val Cys Ser Asn Gly Arg Cys Ile Pro Gly Ala Trp Gln
      35           40           45
Cys Asp Gly Leu Pro Asp Cys Phe Asp Lys Ser Asp Glu Lys Glu Cys
      50           55           60
Pro Lys Ala Lys Ser Lys Cys Gly Pro Thr Phe Phe Pro Cys Ala Ser
      65           70           75           80
Gly Ile His Cys Ile Ile Gly Arg Phe Arg Cys Asn Gly Phe Glu Asp
      85           90           95
Cys Pro Asp Gly Ser Asp Glu Glu Asn Cys Thr Ala Asn Pro Leu Leu
      100           105           110
Cys Ser Thr Ala Arg Tyr His Cys Lys Asn Gly Leu Cys Ile Asp Lys
      115           120           125
Ser Phe Ile Cys Asp Gly Gln Asn Asn Cys Gln Asp Asn Ser Asp Glu
      130           135           140
Glu Ser Cys Glu Ser Ser Gln Val Phe Arg Pro Gln Val Ser Glu Trp
      145           150           155           160
Gln Ala Arg Pro Arg Asp Leu Cys Ala Arg Trp Asn Ile Pro Phe Leu
      165           170           175
Gly Arg Leu Glu Arg Pro Trp Ser Phe Thr Ser Ser Gln Gln
      180           185           190

```

<210> 1507

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1507

```

Met Tyr Arg Pro Ala Pro Pro Arg Gln Asn Arg Gln Leu His Pro Tyr
      1           5           10           15
Leu Leu Ala Ser Trp Pro Lys Ala Leu Asn Cys Thr Leu Cys Val Cys
      20           25           30
Val Cys Val Cys Ala Arg Val Cys Ala Cys Val Cys Met Trp Ser Val
      35           40           45
Thr Ser Leu Trp Leu Thr Cys Leu Ser Gly Val *
      50           55           59

```

<210> 1508

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1508

```

Met Ser His His Cys Ala Trp Pro Lys Asn Phe Leu Leu Lys Met Leu
      1           5           10           15
Ser Thr Gly Arg Val Gln Trp Leu Met Pro Ile Ile Phe Leu Phe Phe
      20           25           30
Gln Lys Met Gly Gly Asn Met Val Gly Ser Gln Leu Lys Leu Ser *
      35           40           45           47

```

<210> 1509
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1509
 Met Thr Gly Ser Arg Cys Glu Glu His Val Phe Ser Gln Gln Gln Pro
 1 5 10 15
 Gly His Ile Ala Ser Ile Leu Ile Pro Leu Leu Leu Leu Leu Leu Leu
 20 25 30
 Val Leu Ala Ala Gly Val Val Phe Trp Tyr Lys Arg Arg Val Gln Gly
 35 40 45
 Ala Lys Gly Phe His His Gln Arg Met Thr Asn Gly Ala Met Asn Val
 50 55 60
 Glu Ile Gly Asn Pro Thr Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp
 65 70 75 80
 Asp Val Gly Gly Leu
 85

<210> 1510
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1510
 Met Ala Ile Ser Trp Lys Pro Thr Gly Leu Pro Trp His Ser Met Leu
 1 5 10 15
 Gln Val Leu Leu Ala Ala Trp Leu Pro Gly Pro Thr Pro Thr Pro His
 20 25 30
 Ser Ala Leu Pro Ser Phe Ser Pro Pro Ser Leu Pro Pro Lys Met
 35 40 45
 Cys Leu Pro Lys Cys Cys *
 50 54

<210> 1511
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1511
 Met Val Gly Phe Gly Ala Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1 5 10 15
 Val Leu Gly Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
 20 25 30
 Trp Ser Ile Ser Ser Arg His Val Leu Leu Gln Glu Glu Val Ala Glu
 35 40 45
 Leu Gln Gly Gln Val Gln Arg Thr Glu Val Ala Arg Gly Arg Leu Glu
 50 55 60
 Lys Arg Asn Ser Asp Leu Phe Ala Val Val Gly His Ala Gln Glu Thr
 65 70 75 80
 Asp Arg Pro Glu Gly Gly Arg Leu Arg Pro Pro Gln Gln Pro Ala Ala

85 90 95
 Gly Gln Arg Gly Pro Arg Glu Glu Met Arg Gly *
 100 105 107

<210> 1512
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1512
 Met Val Ala Arg Val Trp Ser Leu Met Arg Phe Leu Ile Lys Gly Ser
 1 5 10 15
 Val Ala Gly Gly Ala Val Tyr Leu Val Tyr Asp Gln Glu Leu Leu Gly
 20 25 30
 Pro Ser Asp Lys Ser Gln Ala Ala Leu Gln Lys Ala Gly Glu Val Val
 35 40 45
 Pro Pro Ala Met Tyr Gln Phe Ser Gln Tyr Val Cys Gln Gln Thr Gly
 50 55 60
 Leu Gln Ile Pro Gln Leu Pro Ala Pro Pro Lys Ile Tyr Phe Pro Ile
 65 70 75 80
 Arg Asp Ser Trp Asn Ala Gly Ile Met Thr Val Met Ser Ala Leu Ser
 85 90 95
 Val Ala Pro Ser Lys Ala Arg Glu Tyr Ser Lys Glu Gly Trp Glu Tyr
 100 105 110
 Val Lys Ala Arg Thr Lys *
 115 118

<210> 1513
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1513
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val
 1 5 10 15
 Leu Ser Ser Leu Leu Met Ser Val Gly Leu Cys Thr Leu Phe Gly Leu
 20 25 30
 Thr Pro Thr Leu Asn Gly Gly Glu Ile Phe Pro Tyr Leu Val Val Val
 35 40 45
 Ile Gly Leu Glu Asn Val Leu Val Leu Thr Lys Ser Val Val Ser Thr
 50 55 60
 Pro Val Asp Leu Glu Val Lys Leu Arg Ile Ala Gln Gly Leu Ser Ser
 65 70 75 80
 Glu Ser Trp Ser Ile Met Lys Asn Met Ala Thr Glu Leu Gly Ile Ile
 85 90 95
 Leu Ile Gly Tyr Phe Thr Leu Val Pro Ala Ile Gln Glu Phe Cys Leu
 100 105 110
 Phe Ala Val Val Gly Leu Val Ser Asp Phe Phe Leu Gln Met Leu Phe
 115 120 125
 Phe Thr Thr Val Leu Ser Ile Asp Ile Arg Arg Met Glu Leu Ala Asp
 130 135 140
 Leu Asn Lys Arg Leu Pro Pro Glu Ala Cys Leu Pro Ser Ala Lys Pro
 145 150 155 160

Val Gly Gln Pro Thr Arg Tyr Glu Arg Gln Leu Ala Val Arg Pro Ser
 165 170 175
 Thr Pro His Thr Ile Thr Leu Gln Pro Ser Ser Phe Arg Asn Leu Arg
 180 185 190
 Leu Pro Lys Arg Leu Arg Val Val Tyr Phe Leu Ala Arg Thr Arg Leu
 195 200 205
 Ala Gln Arg Leu Ile Met Ala Gly Thr Val Val Trp Ile Gly Ile Leu
 210 215 220
 Val Tyr Thr Asp Pro Ala Gly Leu Arg Asn Tyr Leu Ala Ala Gln Val
 225 230 235 240
 Thr Glu Gln Ser Pro Leu Gly Glu Gly Ala Leu Ala Pro Met Pro Val
 245 250 255
 Pro Ser Gly Met Leu Pro Pro Ser His Pro Asp Pro Ala Phe Ser Ile
 260 265 270
 Phe Pro Pro Asp Ala Pro Lys Leu Pro Glu Asn Gln Thr Ser Pro Gly
 275 280 285
 Glu Ser Pro Glu Arg Gly Gly Pro Ala Glu Val Val His Asp Ser Pro
 290 295 300
 Val Pro Glu Val Thr Trp Gly Pro Glu Asp Glu Glu Leu Trp Arg Lys
 305 310 315 320
 Leu Ser Phe Arg His Trp Pro Thr Leu Phe Ser Tyr Tyr Asn Ile Thr
 325 330 335
 Leu Ala Lys Arg Tyr Ile Ser Leu Leu Pro Val Ile Pro Val Thr Leu
 340 345 350
 Arg Leu Asn Pro Arg Glu Ala Leu Glu Gly Arg His Pro Gln Asp Gly
 355 360 365
 Arg Ser Ala Trp Pro Pro Pro Gly Pro Ile Pro Ala Gly His Trp Glu
 370 375 380
 Ala Gly Pro Lys Gly Pro Gly Gly Val Gln Ala His Gly Asp Val Thr
 385 390 395 400
 Leu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Ile Val Leu Val
 405 410 415
 Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Cys Pro Arg Asn Tyr Gly
 420 425 430
 Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Gly Glu Leu Pro Cys
 435 440 445
 Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu Val
 450 455 460
 Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly Met
 465 470 475 480
 Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
 485 490 495
 Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
 500 505 510
 Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
 515 520 525
 Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
 530 535 540
 Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Ser Leu Phe
 545 550 555 560
 Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
 565 570 575
 Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
 580 585 590
 Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
 595 600 605
 Val Gln Arg Val Tyr Gln Glu Gly Leu Ala Ala Val Cys Thr Pro
 610 615 620
 Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu

```

625          630          635          640
Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
          645          650          655
Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
          660          665          670
Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
          675          680          685
Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
          690          695          700
Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
705          710          715          720
Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
          725          730          735
Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
          740          745          750
Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
          755          760          765
Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
          770          775          780
Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
785          790          795          800
Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
          805          810          815
Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
          820          825          830
Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
          835          840          845
Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
          850          855          860
Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
865          870          875          880
Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
          885          890          895
Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
          900          905          910
Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
          915          920          925
Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
          930          935          940
Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser
945          950          955          960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
          965          970          972

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<210> 1514

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1514

```

Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val Arg Phe Trp Phe Leu
 1          5          10          15
His Gln Met Val Leu Asp Leu Cys Leu Gly Gln Gly Val Pro Gln Gln
          20          25          30
Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe Leu Leu Phe Val Arg
          35          40          45

```

Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu Ser Gln Glu Pro Ser
 50 55 60
 Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr Thr *
 65 70 75 76

<210> 1515
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 1515
 Met Leu Gly Ser Arg Leu Met Thr Leu Thr Val Cys Ala Gly Ala Leu
 1 5 10 15
 Ala Arg Gly Arg Gly Thr Gly Thr Cys Glu Thr Arg Gln Glu Gly Lys
 20 25 30
 Gly Gln Asn His Ser Thr Leu Ala Trp Pro His Glu Glu Pro Gly Ala
 35 40 45
 Ser Thr Gly Arg Asp Gly Gly Lys Leu Pro Arg Gly Gln Cys Leu Leu
 50 55 60
 Glu Lys Gly Pro Gly Gly Ala Gly Asp Lys Val Ser Lys Ile Phe Pro
 65 70 75 80
 Ser Cys Ala Leu Ala Leu Leu Leu Ser Leu Ala Asn Pro Gly Pro Arg
 85 90 95
 Gly Pro Arg Glu Phe His Leu Cys Trp Gly Trp Leu Asp Arg Gly Val
 100 105 110
 Thr Gln Glu Ala Val His Val Gly Glu Lys Arg Gly Gly Leu Gly Ser
 115 120 125
 Gly Arg Lys Gly Gly Trp Trp Pro Gly Trp Asp Pro Gly Cys Arg Asp
 130 135 140
 Val Ile Thr *
 145 147

<210> 1516
 <211> 274
 <212> PRT
 <213> Homo sapiens

<400> 1516
 Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu Ala
 1 5 10 15
 Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val Cys Ala
 20 25 30
 Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val Gln Arg Val
 35 40 45
 Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg Ala Cys Ser Thr
 50 55 60
 Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg Ser Pro Gly Leu Ala
 65 70 75 80
 Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro Gly Trp Lys Arg Thr Ser
 85 90 95
 Gly Leu Pro Gly Ala Cys Gly Ala Ala Ile Cys Gln Pro Pro Cys Arg
 100 105 110
 Asn Gly Gly Ser Cys Val Gln Pro Gly Arg Cys Arg Cys Pro Ala Gly

```

      115      120      125
Trp Arg Gly Asp Thr Cys Gln Ser Asp Val Asp Glu Cys Ser Ala Arg
 130      135      140
Arg Gly Gly Cys Pro Gln Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp
145      150      155      160
Cys Gln Cys Trp Glu Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys
      165      170      175
Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val
      180      185      190
Asp Ser Ala Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp
      195      200      205
Leu Leu Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu
      210      215      220
Ala Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu
225      230      235      240
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu Gln
      245      250      255
Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys Lys Asp
      260      265      270
Ser *
273

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<210> 1517
<211> 246
<212> PRT
<213> Homo sapiens

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      <400> 1517
Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1      5      10      15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
      20      25      30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
      35      40      45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
      50      55      60
Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
      65      70      75      80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
      85      90      95
Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
      100      105      110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
      115      120      125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
      130      135      140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
145      150      155      160
Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
      165      170      175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
      180      185      190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
      195      200      205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
      210      215      220

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Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1518
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1518
 Met Arg Asn Arg Arg Thr Glu Arg Thr Cys Thr Pro Pro Leu Ala Ser
 1 5 10 15
 Pro Tyr Asn Leu Val Pro His Leu Gln Asn Leu Leu Ala Val Leu Leu
 20 25 30
 Met Ile Leu Val Leu Thr Pro Met Val Leu Asn Pro His Lys Leu Tyr
 35 40 45
 Gln Met Met Thr Gln Asn Ile Leu Leu Gln Lys Pro Gln Lys Asn Phe
 50 55 60
 Ile Trp Thr Ala Leu Lys Gly Asn Leu Ser Tyr Pro Arg Asn Leu Leu
 65 70 75 80
 Leu Gln Ser His Leu Ser Leu Leu Leu His Ser Leu Leu Leu Glu Leu
 85 90 95
 Asn Gln Arg Val Cys Leu Leu Pro Arg Ser Leu Ile Asp Pro Gly Lys
 100 105 110
 Arg Leu Lys Lys Lys Pro Met Glu Thr Phe
 115 120 122

<210> 1519
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 1519
 Met Gly Leu Ser Ile Phe Leu Leu Leu Cys Val Leu Gly Leu Ser Gln
 1 5 10 15
 Ala Ala Thr Pro Lys Ile Phe Asn Gly Thr Glu Cys Gly Arg Asn Ser
 20 25 30
 Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg Cys Gly
 35 40 45
 Gly Val Leu Ile Asp His Arg Trp Val Leu Thr Ala Ala His Cys Ser
 50 55 60
 Gly Ser Arg Tyr Trp Val Arg Leu Gly Glu His Ser Leu Ser Gln Leu
 65 70 75 80
 Asp Trp Thr Glu Gln Ile Arg His Ser Gly Phe Ser Val Thr His Pro
 85 90 95
 Gly Tyr Leu Gly Ala Ser Thr Ser His Glu His Asp Leu Arg Leu Leu
 100 105 110
 Arg Leu Arg Leu Pro Val Arg Val Thr Ser Ser Val Gln Pro Leu Pro
 115 120 125
 Leu Pro Asn Asp Cys Ala Thr Ala Gly Thr Glu Cys His Val Ser Gly
 130 135 140
 Trp Gly Ile Thr Asn His Pro Arg Asn Pro Phe Pro Asp Leu Leu Gln

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145          150          155          160
Cys Leu Asn Leu Ser Ile Val Ser His Ala Thr Cys His Gly Val Tyr
          165          170          175
Pro Gly Arg Ile Thr Ser Asn Met Val Cys Ala Gly Gly Val Pro Gly
          180          185          190
Gln Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gly Gly
          195          200          205
Val Leu Gln Gly Leu Val Ser Trp Gly Ser Val Gly Pro Cys Gly Gln
          210          215          220
Asp Gly Ile Pro Gly Val Tyr Thr Tyr Ile Cys Lys Tyr Val Asp Trp
225          230          235          240
Ile Arg Met Ile Met Arg Asn Asn *
          245          248

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<210> 1520
<211> 292
<212> PRT
<213> Homo sapiens

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<400> 1520
Met Leu Val Leu Gln Ile Leu Leu Cys Ile Arg Glu Phe Ile Leu Glu
 1          5          10          15
Arg Ser Leu Ile Asn Val Lys Asn Val Ala Lys Ser Leu Ala Val Val
          20          25          30
Leu Ala Leu Leu Asn Ile Gly Lys Phe Ile Leu Glu Lys Ile Phe Thr
          35          40          45
Asn Ala Lys Tyr Val Leu Asn Leu Leu Leu Val Ser Gln Ile Leu Leu
 50          55          60
Cys Met Arg Glu Phe Ile Leu Glu Arg Asn Pro Ile Asn Val Lys Asn
 65          70          75          80
Val Ala Lys Pro Phe Leu Ile Val His Thr Leu Phe Asp Ile Ile Glu
          85          90          95
Phe Ile Leu Glu Lys Asn His Thr Asn Val Lys His Val Ala Asn Leu
          100          105          110
Leu Val Thr Pro Gln Val Leu Leu Cys Ile Gly Glu Leu Ile Leu Glu
          115          120          125
Arg Asn Pro Ile His Val Lys Asn Val Ala Lys Pro Leu Val Ile Val
          130          135          140
Gln Met Leu Phe Ser Ile Gly Glu Phe Ile Leu Ala Arg Asp Pro Thr
145          150          155          160
Asn Val Lys Asn Val Ala Lys Pro Ser Thr Ile Gly His Thr Ser Leu
          165          170          175
His Ile Lys Glu Val Ile Leu Glu Arg Asp Pro Thr Asn Val Lys Asn
          180          185          190
Val Ala Lys Pro Ser Thr Leu Gly His Thr Ser Leu His Ile Gly Glu
          195          200          205
Asp Ile Leu Glu Arg Asp Pro Thr Asn Val Met Asn Val Val Lys Pro
          210          215          220
Ser Ala Ile Gly His Thr Ser Leu His Ile Gly Glu Val Ile Val Glu
225          230          235          240
Arg Asp Pro Thr Asn Val Lys Asn Val Ala Lys Pro Leu Thr Leu Gly
          245          250          255
His Thr Ser Leu His Ile Arg Glu Val Ile Leu Glu Lys Asn Phe Lys
          260          265          270
Asn Val Lys His Gly Ala Asp Phe Leu Leu Val Thr His Val Leu Leu
          275          280          285

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Cys Ile Arg *
290 291

<210> 1521
<211> 129
<212> PRT
<213> Homo sapiens

<400> 1521
Met Gly Ser Thr Ala Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
1 5 10 15
Val Cys Ala Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
20 25 30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe
35 40 45
Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu
50 55 60
Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser
65 70 75 80
Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser
85 90 95
Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met
100 105 110
Tyr Tyr Cys Ala Arg His Thr Val Arg Glu Thr Ser Pro Glu Pro Val
115 120 125 128
*

<210> 1522
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1522
Met Val Val Val Leu Pro Cys Phe Ala Val Leu Lys Leu Leu Phe Gly
1 5 10 15
Gln Ser Lys Leu Gly Pro Met Gln Pro Ser Gln Ser Gly Leu Asp Pro
20 25 30
Val Gly Ala Gly Met Ser Ala Ser Ile Ala Asp Gly Ser Arg Ala Thr
35 40 45
Ala Asp Lys Ala Val Leu Leu Asp Pro Thr Ser Leu Leu Leu Glu Tyr
50 55 60
Thr *
65

<210> 1523
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1523

```

Met Ile Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu
 1           5           10           15
Leu Leu Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu
          20           25           30
Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val
          35           40           45
Asn Pro Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val
          50           55           60
Leu Ser Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro
          65           70           75           80
Gly Asp Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr
          85           90           95
Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser
          100          105          110
Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
          115          120          125
Ser Ile *
          130

```

<210> 1524

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1524

```

Met Lys Phe Phe Val Phe Ala Leu Ile Leu Ala Leu Met Leu Ser Met
 1           5           10           15
Thr Gly Ala Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys
          20           25           30
Phe His Glu Lys His His Ser His Arg Gly Tyr Arg Ser Asn Tyr Leu
          35           40           45
Tyr Asp Asn *
          50  51

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<210> 1525

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1525

```

Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1           5           10           15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
          20           25           30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
          35           40           45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
          50           55           60
Trp Asn Lys Glu Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
          65           70           75           80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
          85           90           95

```


Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
 100 105 110
 Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
 115 120 125
 Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
 130 135 140
 Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
 145 150 155 160
 Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
 165 170 175
 Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
 180 185 190
 Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
 195 200 205
 Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
 210 215 220
 Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1526
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1526
 Met Val Leu Gly Ala Arg Ala Val Ile Ser Phe Cys Ile Leu Ser Ala
 1 5 10 15
 Met Pro Gly Tyr Met Val Val Pro Pro Glu Arg Thr Leu Leu Ala Tyr
 20 25 30
 Lys Ser Leu Arg Met Ser Met Ser His Phe Met Met Glu Leu *
 35 40 45 46

<210> 1527
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1527
 Met Ser Ala Arg Gly Trp Pro Cys Glu Ala Phe Val Leu Ala Gln Val
 1 5 10 15
 Cys Trp Cys Trp Leu Cys Val Arg Gly Arg Leu Cys Glu Ala Leu Thr
 20 25 30
 Leu Ala Gln Val Arg Arg His Gln Val Cys Val Pro Gly Gln Pro Cys
 35 40 45
 Glu Ala Leu Thr Leu Thr Gln Val Arg Arg His Gln Leu Cys Val Trp
 50 55 60
 Gly Arg Pro Cys Glu Ala Leu Thr Leu Ala Gln Val Cys Trp Leu Trp
 65 70 75 80
 Leu Cys Val Gln Gly Trp Pro His Glu Ala Leu Thr Leu Ala Gln Val
 85 90 95
 Arg Gln His Gln Val Cys Val Arg Gly Arg Pro Cys Glu Ala Leu Ser

100 105 110
 Leu Ala Gln Val Arg *
 115 117

<210> 1528
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1528
 Met Lys Val Ser Ala Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala
 1 5 10 15
 Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
 20 25 30
 Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
 35 40 45
 Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val Phe
 50 55 60
 Val Thr Arg Lys Asn Arg Gln Val Cys Ala Asn Pro Glu Lys Lys Trp
 65 70 75 80
 Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser *
 85 90 91

<210> 1529
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1529
 Met Tyr Cys Trp Trp Cys Trp Leu Cys Thr Ala Met Val Cys Ser Gly
 1 5 10 15
 Val Leu Cys Arg Pro Leu Trp Glu Pro Leu Ser Pro Arg Leu Ser Val
 20 25 30
 Phe Trp Ala Gly Arg Tyr Leu Gly Phe Trp Cys Met Gly Cys Cys Arg
 35 40 45
 Met Ala Met Tyr Cys Val Ser Ser Cys Ser Arg Phe Ser Gly Glu Ser
 50 55 60
 Gly Phe Arg Arg Ile Pro *
 65 70

<210> 1530
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1530
 Met Val Leu Arg Val Cys Phe Leu Ile Phe Val Leu Tyr His Asn Leu
 1 5 10 15
 Gly Lys Tyr Ile Phe Ile Ile Tyr Val Tyr Arg Cys Lys Asp Arg Phe
 20 25 30

```

Thr Lys Gly Cys Ile Thr Val Val Gln Gln Ser Gly Ile Leu Thr Glu
      35          40          45
Leu Lys Gly Gln Gly Ser Phe Leu Tyr Val Leu Leu Cys Leu Asp Ile
      50          55          60
Thr Leu Leu Val Arg Ser Val Phe Lys Asn Asp Asn Ser Arg Phe Asp
      65          70          75          80
Phe Gln Ala Asn *
      84

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<210> 1531
<211> 60
<212> PRT
<213> Homo sapiens

```

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<400> 1531
Met Leu Pro Gln Val Phe Leu Gly Phe Thr Lys Val Arg Leu Leu Arg
  1      /      5      10      15
Leu Arg Asn Pro Trp Gly Cys Val Glu Trp Thr Gly Ala Trp Ser Asp
      20      25      30
Arg Trp Asp Gly Ser Gly Val Gly Val Gly Leu Asp Pro Thr Cys Pro
      35      40      45
Pro Leu Thr Pro Gln Ser Leu Gln Leu Pro Thr Leu
      50      55      60

```

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<210> 1532
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<400> 1532
Met Leu Gly Leu His Gln Leu Cys Ser Leu Leu Val Gln Leu Asp Phe
  1      5      10      15
Tyr Leu Gln Tyr Leu Tyr Gly Gln Phe Gln Gln Phe Ser Met Cys Leu
      20      25      30
Asp Leu Asn His Val His Phe Leu Met Phe Pro Ser Leu Val Cys Ala
      35      40      45
Met Phe Arg Phe *
      50      52

```

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<210> 1533
<211> 741
<212> PRT
<213> Homo sapiens

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<400> 1533
Met Ala Glu Ser Arg Gly Arg Leu Tyr Leu Trp Met Cys Leu Ala Ala
  1      5      10      15
Ala Leu Ala Ser Phe Leu Met Gly Phe Met Val Gly Trp Phe Ile Lys
      20      25      30
Pro Leu Lys Glu Thr Thr Thr Ser Val Arg Tyr His Gln Ser Ile Arg

```

	35						40						45					
Trp	Lys	Leu	Val	Ser	Glu	Met	Lys	Ala	Glu	Asn	Ile	Lys	Ser	Phe	Leu			
50						55					60							
Arg	Ser	Phe	Thr	Lys	Leu	Pro	His	Leu	Ala	Gly	Thr	Glu	Gln	Asn	Phe			
65					70					75					80			
Leu	Leu	Ala	Lys	Lys	Ile	Gln	Thr	Gln	Trp	Lys	Lys	Phe	Gly	Leu	Asp			
				85					90					95				
Ser	Ala	Lys	Leu	Val	His	Tyr	Asp	Val	Leu	Leu	Ser	Tyr	Pro	Asn	Glu			
			100					105					110					
Thr	Asn	Ala	Asn	Tyr	Ile	Ser	Ile	Val	Asp	Glu	His	Glu	Thr	Glu	Ile			
		115					120					125						
Phe	Lys	Thr	Ser	Tyr	Leu	Glu	Pro	Pro	Pro	Asp	Gly	Tyr	Glu	Asn	Val			
130					135						140							
Thr	Asn	Ile	Val	Pro	Pro	Tyr	Asn	Ala	Phe	Ser	Ala	Gln	Gly	Met	Pro			
145					150					155					160			
Glu	Gly	Asp	Leu	Val	Tyr	Val	Asn	Tyr	Ala	Arg	Thr	Glu	Asp	Phe	Phe			
				165					170					175				
Lys	Leu	Glu	Arg	Glu	Met	Gly	Ile	Asn	Cys	Thr	Gly	Lys	Ile	Val	Ile			
			180					185					190					
Ala	Arg	Tyr	Gly	Lys	Ile	Phe	Arg	Gly	Asn	Lys	Val	Lys	Asn	Ala	Met			
		195					200					205						
Leu	Ala	Gly	Ala	Ile	Gly	Ile	Ile	Leu	Tyr	Ser	Asp	Pro	Ala	Asp	Tyr			
210					215						220							
Phe	Ala	Pro	Glu	Val	Gln	Pro	Tyr	Pro	Lys	Gly	Trp	Asn	Leu	Pro	Gly			
225					230					235					240			
Thr	Ala	Ala	Gln	Arg	Gly	Asn	Val	Leu	Asn	Leu	Asn	Gly	Ala	Gly	Asp			
				245					250					255				
Pro	Leu	Thr	Pro	Gly	Tyr	Pro	Ala	Lys	Glu	Tyr	Thr	Phe	Arg	Leu	Asp			
			260					265					270					
Val	Glu	Glu	Gly	Val	Gly	Ile	Pro	Arg	Ile	Pro	Val	His	Pro	Ile	Gly			
		275					280					285						
Tyr	Asn	Asp	Ala	Glu	Ile	Leu	Leu	Arg	Tyr	Leu	Gly	Gly	Ile	Ala	Pro			
290					295						300							
Pro	Asp	Lys	Ser	Trp	Lys	Gly	Ala	Leu	Asn	Val	Ser	Tyr	Ser	Ile	Gly			
305					310					315					320			
Pro	Gly	Phe	Thr	Gly	Ser	Asp	Ser	Phe	Arg	Lys	Val	Arg	Met	His	Val			
				325					330					335				
Tyr	Asn	Ile	Asn	Lys	Ile	Thr	Arg	Ile	Tyr	Asn	Val	Val	Gly	Thr	Ile			
			340					345					350					
Arg	Gly	Ser	Val	Glu	Pro	Asp	Arg	Tyr	Val	Ile	Leu	Gly	Gly	His	Arg			
		355					360					365						
Asp	Ser	Trp	Val	Phe	Gly	Ala	Ile	Asp	Pro	Thr	Ser	Gly	Val	Ala	Val			
		370				375					380							
Leu	Gln	Glu	Ile	Ala	Arg	Ser	Phe	Gly	Lys	Leu	Met	Ser	Lys	Gly	Trp			
385					390					395								

Ala Tyr Phe Gln Arg Leu Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr
 515 520 525
 Lys Asn Lys Lys Thr Asp Lys Tyr Ser Ser Tyr Pro Val Tyr His Thr
 530 535 540
 Ile Tyr Glu Thr Phe Glu Leu Val Glu Lys Phe Tyr Asp Pro Thr Phe
 545 550 555 560
 Lys Lys Gln Leu Ser Val Ala Gln Leu Arg Gly Ala Leu Val Tyr Glu
 565 570 575
 Leu Val Asp Ser Lys Ile Ile Pro Phe Asn Ile Gln Asp Tyr Ala Glu
 580 585 590
 Ala Leu Lys Asn Tyr Ala Ala Ser Ile Tyr Asn Leu Ser Lys Lys His
 595 600 605
 Asp Gln Gln Leu Thr Asp His Gly Val Ser Phe Asp Ser Leu Phe Ser
 610 615 620
 Ala Val Lys Asn Phe Ser Glu Ala Ala Ser Asp Phe His Lys Arg Leu
 625 630 635 640
 Ile Gln Val Asp Leu Asn Asn Pro Ile Ala Val Arg Met Met Asn Asp
 645 650 655
 Gln Leu Met Leu Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro
 660 665 670
 Gly Lys Leu Phe Tyr Arg His Ile Ile Phe Ala Pro Ser Ser His Asn
 675 680 685
 Lys Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Ile Phe Asp
 690 695 700
 Ile Glu Asn Lys Ala Asn Ser Arg Leu Ala Trp Lys Glu Val Lys Lys
 705 710 715 720
 His Ile Ser Ile Ala Ala Phe Thr Ile Gln Ala Ala Ala Gly Thr Leu
 725 730 735
 Lys Glu Val Leu *
 740

<210> 1534
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1534
 Met Leu Ile Leu Leu His Ile Leu Lys Asn Ile Lys Leu Tyr Leu Val
 1 5 10 15
 Asn Met Leu Lys Thr Lys Leu Cys Phe Tyr Lys Asp Arg Gly Ser Pro
 20 25 30
 Glu Glu Gly Ile Asp Lys Glu Glu Met Lys Leu Gly Gly Arg Lys Trp
 35 40 45
 Thr *
 49

<210> 1535
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1535
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val

1		5		10		15								
Leu	Ser	Ser	Leu	Met	Ser	Val	Gly	Leu	Cys	Thr	Leu	Phe	Gly	Leu
		20					25					30		
Thr	Pro	Thr	Leu	Asn	Gly	Gly	Glu	Ile	Phe	Pro	Tyr	Leu	Val	Val
		35					40					45		
Ile	Gly	Leu	Glu	Asn	Val	Leu	Val	Leu	Thr	Lys	Ser	Val	Val	Ser
		50					55				60			
Pro	Val	Asp	Leu	Glu	Val	Lys	Leu	Arg	Ile	Ala	Gln	Gly	Leu	Ser
		65					70			75				80
Glu	Ser	Trp	Ser	Ile	Met	Lys	Asn	Met	Ala	Thr	Glu	Leu	Gly	Ile
				85					90				95	
Leu	Ile	Gly	Tyr	Phe	Thr	Leu	Val	Pro	Ala	Ile	Gln	Glu	Phe	Cys
				100				105					110	
Phe	Ala	Val	Val	Gly	Leu	Val	Ser	Asp	Phe	Phe	Leu	Gln	Met	Leu
		115					120					125		
Phe	Thr	Thr	Val	Leu	Ser	Ile	Asp	Ile	Arg	Arg	Met	Glu	Leu	Ala
		130					135				140			
Leu	Asn	Lys	Arg	Leu	Pro	Pro	Glu	Ala	Cys	Leu	Pro	Ser	Ala	Lys
				150					155					160
Val	Gly	Gln	Pro	Thr	Arg	Tyr	Glu	Arg	Gln	Leu	Ala	Val	Arg	Pro
				165					170				175	
Thr	Pro	His	Thr	Ile	Thr	Leu	Gln	Pro	Ser	Ser	Phe	Arg	Asn	Leu
				180				185					190	
Leu	Pro	Lys	Arg	Leu	Arg	Val	Val	Tyr	Phe	Leu	Ala	Arg	Thr	Arg
		195					200				205			
Ala	Gln	Arg	Leu	Ile	Met	Ala	Gly	Thr	Val	Val	Trp	Ile	Gly	Ile
		210					215				220			
Val	Tyr	Thr	Asp	Pro	Ala	Gly	Leu	Arg	Asn	Tyr	Leu	Ala	Ala	Gln
				230					235					240
Thr	Glu	Gln	Ser	Pro	Leu	Gly	Glu	Gly	Ala	Leu	Ala	Pro	Met	Pro
				245				250				255		
Pro	Ser	Gly	Met	Leu	Pro	Pro	Ser	His	Pro	Asp	Pro	Ala	Phe	Ser
			260					265				270		
Phe	Pro	Pro	Asp	Ala	Pro	Lys	Leu	Pro	Glu	Asn	Gln	Thr	Ser	Pro
		275					280				285			
Glu	Ser	Pro	Glu	Arg	Gly	Gly	Pro	Ala	Glu	Val	Val	His	Asp	Ser
		290					295			300				
Val	Pro	Glu	Val	Thr	Trp	Gly	Pro	Glu	Asp	Glu	Glu	Leu	Trp	Arg
				310					315					320
Leu	Ser	Phe	Arg	His	Trp	Pro	Thr	Leu	Phe	Ser	Tyr	Tyr	Asn	Ile
				325					330				335	
Leu	Ala	Lys	Arg	Tyr	Ile	Ser	Leu	Leu	Pro	Val	Ile	Pro	Val	Thr
			340					345				350		
Arg	Leu	Asn	Pro	Arg	Glu	Ala	Leu	Glu	Gly	Arg	His	Pro	Gln	Asp
		355						360			365			
Arg	Ser	Ala	Trp	Pro	Pro	Pro	Gly	Pro	Ile	Pro	Ala	Gly	His	Trp
		370						375			380			
Ala	Gly	Pro	Lys	Gly	Pro	Gly	Gly	Val	Gln	Ala	His	Gly	Asp	Val
				390					395					400
Leu	Tyr	Lys	Val	Ala	Ala	Leu	Gly	Leu	Ala	Thr	Gly	Ile	Val	Leu
				405				410				415		
Leu	Leu	Leu	Leu	Cys	Leu	Tyr	Arg	Val	Leu	Cys	Pro	Arg	Asn	Tyr
			420					425				430		
Gln	Leu	Gly	Gly	Gly	Pro	Gly	Arg	Arg	Arg	Arg	Gly	Glu	Leu	Pro
		435						440			445			
Asp	Asp	Tyr	Gly	Tyr	Ala	Pro	Pro	Glu	Thr	Glu	Ile	Val	Pro	Leu
		450						455			460			
Leu	Arg	Gly	His	Leu	Met	Asp	Ile	Glu	Cys	Leu	Ala	Ser	Asp	Gly
				470				475					480	

Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
 485 490 495
 Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
 500 505 510
 Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
 515 520 525
 Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
 530 535 540
 Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Ser Leu Phe
 545 550 555 560
 Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
 565 570 575
 Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
 580 585 590
 Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
 595 600 605
 Val Gln Arg Val Tyr Gln Glu Gly Leu Ala Ala Val Cys Thr Pro
 610 615 620
 Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu
 625 630 635 640
 Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
 645 650 655
 Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
 660 665 670
 Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
 675 680 685
 Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
 690 695 700
 Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
 705 710 715 720
 Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
 725 730 735
 Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
 740 745 750
 Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
 755 760 765
 Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Gly Arg
 770 775 780
 Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
 785 790 795 800
 Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
 805 810 815
 Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
 820 825 830
 Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
 835 840 845
 Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
 850 855 860
 Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
 865 870 875 880
 Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
 885 890 895
 Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
 900 905 910
 Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
 915 920 925
 Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
 930 935 940
 Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser

945 950 955 960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
 965 970 972

```
<210> 1536
<211> 75
<212> PRT
<213> Homo sapiens
```

```

<400> 1536
Met Cys Leu Leu Lys Ala Ala Pro Phe Phe Phe Phe Tyr Val Pro Gln
  1             5             10             15
Val Gly Lys Gly Asn Pro Arg Pro Pro Arg Gly Cys Ser Ala Phe His
      20             25             30
Pro Pro Thr His Leu Arg Pro Gly Ser Cys Ser Val Ala Gln Ala Gly
      35             40             45
Val Gln Trp Arg Ser Leu Gly Ser Ile Ala Ala Ser Val Ser Trp Val
      50             55             60
Gln Ala Ile Leu Leu Pro Gln Pro Leu Glu  *
      65             70             74

```

```
<210> 1537
<211> 96
<212> PRT
<213> Homo sapiens
```

<400> 1537															
Met	Asp	Leu	Gly	Arg	Val	Phe	Ile	Thr	Leu	Ile	Leu	Asn	Leu	Leu	Arg
1				5					10					15	
Glu	Thr	Ile	Phe	Lys	Arg	Asp	Gln	Ser	Pro	Glu	Pro	Lys	Val	Pro	Glu
			20					25					30		
Gln	Ser	Val	Lys	Glu	Asp	Arg	Lys	Leu	Cys	Glu	Arg	Pro	Leu	Ala	Ser
		35					40					45			
Ser	Pro	Pro	Arg	Leu	Tyr	Glu	Asp	Asp	Glu	Thr	Pro	Gly	Ala	Leu	Ser
	50					55					60				
Gly	Leu	Thr	Asn	Met	Ala	Val	Ile	Gln	Ile	Asp	Gly	His	Met	Ser	Gly
65				70					75					80	
Gln	Met	Val	Lys	His	Leu	Met	Asn	Ser	Met	Met	Lys	Leu	Cys	Val	Met
				85					90					95	96

```
<210> 1538
<211> 318
<212> PRT
<213> Homo sapiens
```

<400> 1538
Met Val Met Arg Pro Leu Trp Ser Leu Leu Leu Trp Glu Ala Leu Leu
1 5 10 15


```

Pro Ile Thr Val Thr Gly Ala Gln Val Leu Ser Lys Val Gly Gly Ser
      20      25      30
Val Leu Leu Val Ala Ala Arg Pro Pro Gly Phe Gln Val Arg Glu Ala
      35      40      45
Ile Trp Arg Ser Leu Trp Pro Ser Glu Glu Leu Leu Ala Thr Phe Phe
      50      55      60
Arg Gly Ser Leu Glu Thr Leu Tyr His Ser Arg Phe Leu Gly Arg Ala
      65      70      75      80
Gln Leu His Ser Asn Leu Ser Leu Glu Leu Gly Pro Leu Glu Ser Gly
      85      90      95
Asp Ser Gly Asn Phe Ser Val Leu Met Val Asp Thr Arg Gly Gln Pro
      100      105      110
Trp Thr Gln Thr Leu Gln Leu Lys Val Tyr Asp Ala Val Pro Arg Pro
      115      120      125
Val Val Gln Val Phe Ile Ala Val Glu Arg Asp Ala Gln Pro Ser Lys
      130      135      140
Thr Cys Gln Val Phe Leu Ser Cys Trp Ala Pro Asn Ile Ser Glu Ile
      145      150      155      160
Thr Tyr Ser Trp Arg Arg Glu Thr Thr Met Asp Phe Gly Met Glu Pro
      165      170      175
His Ser Leu Phe Thr Asp Gly Gln Val Leu Ser Ile Ser Leu Gly Pro
      180      185      190
Gly Asp Arg Asp Val Ala Tyr Ser Cys Ile Val Ser Asn Pro Val Ser
      195      200      205
Trp Asp Leu Ala Thr Val Thr Pro Trp Asp Ser Cys His His Glu Ala
      210      215      220
Ala Pro Gly Lys Ala Ser Tyr Lys Asp Val Leu Leu Val Val Val Pro
      225      230      235      240
Val Ser Leu Leu Leu Met Leu Val Thr Leu Phe Ser Ala Trp His Trp
      245      250      255
Cys Pro Cys Ser Gly Pro His Leu Arg Ser Lys Gln Leu Trp Met Arg
      260      265      270
Trp Asp Leu Gln Leu Ser Leu His Lys Val Thr Leu Ser Asn Leu Ile
      275      280      285
Ser Thr Val Val Cys Ser Val Val His Gln Gly Leu Val Glu Gln Ile
      290      295      300
His Thr Ala Leu Ile Lys Phe Pro Ser Leu Met Lys Lys Lys
      305      310      315      318

```

<210> 1539

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1539

```

Met Ile Leu Gln Val Ser Gly Gly Pro Trp Thr Val Ala Leu Thr Ala
  1      5      10      15
Leu Leu Met Val Leu Leu Ile Ser Val Gln Ser Arg Ala Thr Pro
      20      25      30
Glu Asn Ser Val Tyr Gln Glu Arg Gln Glu Cys Tyr Ala Phe Asn Gly
      35      40      45
Thr Gln Arg Val Val Asp Gly Leu Ile Tyr Asn Arg Glu Glu Tyr Val
      50      55      60
His Phe Asp Ser Ala Val Gly Glu Phe Leu Ala Val Met Glu Leu Gly
      65      70      75      80
Arg Pro Ile Gly Glu Tyr Phe Asn Ser Gln Lys Asp Phe Met Glu Arg

```

```

      85      90      95
Lys Arg Ala Glu Val Asp Lys Val Cys Arg His Lys Tyr Glu Leu Met
      100      105      110
Glu Pro Leu Ile Arg Gln Arg Arg Gly Asp Val Thr Ile Thr Ala Val
      115      120      125
Arg Gly Cys Trp Thr Thr Ile Leu Ser Gly Tyr Phe Leu Leu Lys Arg
      130      135      140
Gly Val Val Ser Gly Gly Cys Ser Trp Gly Ser Ser *
145      150      155 156

```

<210> 1540
 <211> 135
 <212> PRT
 <213> Homo sapiens

```

      <400> 1540
Met Gly Ser Ser Phe Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
  1      5      10      15
Leu Ser Ala Gly Val Leu Leu Glu Gln Ser Arg Ala Glu Val Lys Lys
      20      25      30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Arg Phe
      35      40      45
Thr Ser Ala Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu
      50      55      60
Glu Trp Met Gly Thr Ile Tyr Pro Ala Asp Ser Glu Val Arg Tyr Ser
      65      70      75      80
Pro Ser Leu Gln Gly Gln Val Thr Leu Ser Val Asp Glu Ser Ile Ser
      85      90      95
Thr Ala Tyr Leu Gln Trp Asn Ser Leu Arg Ala Ser Asp Thr Ala Thr
      100      105      110
Tyr Tyr Cys Ala Arg Gln Ile Ile Gly Ala Leu Pro Thr Asp Pro Phe
      115      120      125
Asp Leu Leu Gly Gln Gly Thr
      130      135

```

<210> 1541
 <211> 72
 <212> PRT
 <213> Homo sapiens

```

      <400> 1541
Met Cys Val Thr Cys Val Val Cys Met Trp Cys Met Cys Gly Val Cys
  1      5      10      15
Ala Met Tyr Val Ala Cys Val Met His Val Val Cys Glu Val Tyr Val
      20      25      30
Trp Tyr Val Cys Asp Val Cys Ala Phe Gly His Thr Gly Val Val Ile
      35      40      45
Ala Leu Thr Trp Thr Pro Pro Gln Arg Val Ile Arg Lys Gly Gln Val
      50      55      60
Leu Arg Leu Ala Cys Ser Gln *
      65      70 71

```

<210> 1542
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 1542
 Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala Leu Ala Leu
 1 5 10 15
 Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser
 20 25 30
 Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr
 35 40 45
 Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln
 50 55 60
 Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr
 65 70 75 80
 Trp Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg
 85 90 95
 Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly
 100 105 110
 Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp
 115 120 125
 Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr
 130 135 140
 Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala
 145 150 155 160
 Ala Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
 165 170 175
 Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr
 180 185 190
 Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr
 195 200 205
 His Met Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys
 210 215 220
 Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg
 225 230 235 240
 Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro
 245 250 255
 Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser
 260 265 270
 Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro
 275 280 285
 Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser Gln Pro Thr Ile Pro
 290 295 300
 Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe Gly Ala Val Ile Thr
 305 310 315 320
 Gly Ala Val Val Ala Ala Val Met Trp Arg Arg Lys Ser Ser Asp Arg
 325 330 335
 Lys Gly Val Lys Asp Arg Lys Gly Gly Ser Tyr Ser Gln Ala Ala Ser
 340 345 350
 Ser Asp Ser Ala Gln Gly Ser Asp Val Ser Leu Thr Ala Cys Lys Val
 355 360 365 368

*

<210> 1543
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1543
 Met Arg Ser Leu Trp Lys Ala Asn Arg Ala Asp Leu Leu Ile Trp Leu
 1 5 10 15
 Val Thr Phe Thr Ala Thr Ile Leu Leu Asn Leu Asp Leu Gly Leu Glu
 20 25 30
 Asp Ala Val Ile Phe Ser Leu Leu Leu Glu Glu Val Arg Thr Gln Met
 35 40 45 48
 *

<210> 1544
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1544
 Met Lys Ile Phe Lys Cys Tyr Phe Lys His Thr Leu Gln Gln Lys Val
 1 5 10 15
 Phe Ile Leu Phe Leu Thr Leu Trp Leu Leu Ser Leu Leu Lys Leu Leu
 20 25 30
 Asn Val Arg Arg Leu Phe Pro Gln Lys Asp Ile Tyr Leu Val Glu Tyr
 35 40 45
 Ser Leu Ser Thr Ser Pro Phe Val Arg Asn Arg Tyr Thr His Val Lys
 50 55 60
 Asp Glu Val Arg Tyr Glu Val Asn Cys Ser Gly Ile Tyr Glu Gln Glu
 65 70 75 80
 Pro Leu Glu Ile Gly Lys Ser Leu Glu Ile Arg Arg Arg Asp Ile Ile
 85 90 95
 Asp Leu Glu Asp Asp Asp Val Val Ala Met Thr Ser Asp Cys Asp Ile
 100 105 110
 Tyr Gln Thr Leu Lys Gly Tyr Ala *
 115 120

<210> 1545
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1545
 Met Phe Leu Leu Lys Trp Pro Leu Trp Val Leu Gln Tyr Val Val Cys
 1 5 10 15
 Ser Leu Lys Asp Lys Ile His Lys Phe Phe Tyr Ile Glu Arg Val Val
 20 25 30
 Gly Glu Leu Arg Val Leu Pro Gln Gly Trp Met Val Ala Leu Ile Leu
 35 40 45
 Arg Lys Asp Phe Val Leu Pro Ser Pro Ser Asp Val Val Asn Ala Ser
 50 55 60

Gln Pro Gly Gln Val *
65 69

<210> 1546
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1546
Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
1 5 10 15
Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
20 25 30
Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
35 40 45
Cys Cys Val Val Met Ser Pro Leu Pro *
50 55 57

<210> 1547
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1547
Met Trp Leu His Glu Asn Leu Gln Phe Leu Leu Gln Leu Ile Phe His
1 5 10 15
Phe Tyr Trp Thr Val Pro Pro Trp Arg Asp Trp Cys Lys Val Ile Gln
20 25 30
Gln Ala Arg Asp Arg Pro Gly Pro Asn Pro Leu Leu Pro Leu Arg Met
35 40 45
Gly Ala Trp His Leu Pro Gly His Asp Gly Leu Gly Arg Val Cys Thr
50 55 60 64
*

<210> 1548
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1548
Met Phe Ile Ile Phe Leu Ala Phe Ile Ala Leu Lys Arg Ser Lys Ser
1 5 10 15
Val Ile Gly Ala Phe Leu Tyr Leu Ala Ser Ile Phe Leu Ala His Gly
20 25 30
Val Ala Ala His Ile Val Phe Met Ser Ala Phe Tyr Gln Ala Cys Arg
35 40 45
Thr Tyr Leu Trp Trp Ala Leu Cys Glu Asn Leu Arg Met Lys Ser Val
50 55 60
Ser Cys Met Leu Leu Lys Gly Met Ala Cys Leu Leu Thr *

65

70

75

77

<210> 1549

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1549

```

Met Leu Tyr Ile Glu Cys Lys Ser His Lys Leu Val Ala Pro Leu Ala
 1           5           10           15
Val Phe Phe Ala Leu Phe Phe Leu Leu Ile Phe Phe Trp Val Ala Phe
           20           25           30
Ser Tyr Pro Phe Glu Leu Leu Phe Leu Gln Leu Arg Ser Arg Gln Ala
           35           40           45
Asp Ile Gly Val Gln *
 50           53

```

<210> 1550

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1550

```

Met Val Asn Thr Trp Leu Ala Ala Cys Cys Thr Val Val Thr Trp Phe
 1           5           10           15
Pro Lys Met Ser Met Leu Pro Leu Pro Pro Ser Lys Pro Ser Ala Arg
           20           25           30
Ser Ser Leu Trp Ile Gly Ala Pro Leu Ala Ser Arg Leu Ala Ser Thr
           35           40           45
Thr Ser Leu Pro Leu Trp Cys Leu Val Glu Thr Trp Pro Arg Tyr Arg
           50           55           60
Glu Leu Cys Ala Cys *
 65           69

```

<210> 1551

<211> 224

<212> PRT

<213> Homo sapiens

<400> 1551

```

Met Arg Gln Ile Asn Lys Lys Gly Phe Trp Ser Tyr Gly Pro Val Ile
 1           5           10           15
Leu Val Val Leu Val Val Ala Val Val Ala Ser Ser Val Asn Ser Tyr
           20           25           30
Tyr Ser Ser Pro Ala Gln Gln Val Pro Lys Asn Pro Ala Leu Glu Ala
           35           40           45
Phe Leu Ala Gln Phe Ser Gln Leu Glu Asp Lys Phe Pro Gly Gln Ser
           50           55           60
Ser Phe Leu Trp Gln Arg Gly Arg Lys Phe Leu Gln Lys His Leu Asn
 65           70           75           80

```

```

Ala Ser Asn Pro Thr Glu Pro Ala Thr Ile Ile Phe Thr Ala Ala Arg
      85      90      95
Glu Gly Arg Glu Thr Leu Lys Cys Leu Ser His His Val Ala Asp Ala
      100      105      110
Tyr Thr Ser Ser Gln Lys Val Ser Pro Ile Gln Ile Asp Gly Ala Gly
      115      120      125
Arg Thr Trp Gln Asp Ser Asp Thr Val Lys Leu Leu Val Asp Leu Glu
      130      135      140
Leu Ser Tyr Gly Phe Glu Asn Gly Gln Lys Ala Ala Val Val His His
      145      150      155      160
Phe Glu Ser Phe Pro Ala Gly Ser Thr Leu Ile Phe Tyr Lys Tyr Cys
      165      170      175
Asp His Glu Asn Ala Ala Phe Lys Asp Val Ala Leu Val Leu Thr Val
      180      185      190
Leu Leu Glu Glu Glu Thr Leu Glu Ala Ser Val Gly Pro Arg Glu Thr
      195      200      205
Glu Glu Lys Val Arg Asp Leu Leu Trp Ala Lys Phe Thr Asn Ser *
      210      215      220      223

```

<210> 1552
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

<400> 1552
Met Arg Gln Lys Phe Leu Lys Pro Leu Leu Ile Leu Leu His Arg Leu
  1      5      10      15
Lys Leu Gly Ser Leu Tyr Thr Pro Ser Ser Val Ala Arg Tyr Asp Ser
      20      25      30
Ser Val Asn Glu Asn Arg Ser Val Asn Ser Ser Ala Tyr Glu Glu Ala
      35      40      45
Lys Glu Leu Met Leu Ser Met Asn *
      50      55      56

```

<210> 1553
 <211> 241
 <212> PRT
 <213> Homo sapiens

```

<400> 1553
Met Ser Cys Val Leu Gly Gly Val Ile Pro Leu Gly Leu Leu Phe Leu
  1      5      10      15
Val Cys Gly Ser Gln Gly Tyr Leu Leu Pro Asn Val Thr Leu Leu Glu
      20      25      30
Glu Leu Leu Ser Lys Tyr Gln His Asn Glu Ser His Ser Arg Val Arg
      35      40      45
Arg Ala Ile Pro Arg Glu Asp Lys Glu Glu Ile Leu Met Leu His Asn
      50      55      60
Lys Leu Arg Gly Gln Val Gln Pro Gln Ala Ser Asn Met Glu Tyr Met
      65      70      75      80
Thr Trp Asp Asp Glu Leu Glu Lys Ser Ala Ala Ala Trp Ala Ser Gln
      85      90      95
Cys Ile Trp Glu His Gly Pro Thr Ser Leu Leu Val Ser Ile Gly Gln

```

```

      100      105      110
Asn Leu Gly Ala His Trp Gly Arg Tyr Arg Ser Pro Gly Phe His Val
      115      120      125
Gln Ser Trp Tyr Asp Glu Val Lys Asp Tyr Thr Tyr Pro Tyr Pro Ser
      130      135      140
Glu Cys Asn Pro Trp Cys Pro Glu Arg Cys Ser Gly Pro Met Cys Thr
      145      150      155      160
His Tyr Thr Gln Ile Val Trp Ala Thr Thr Asn Lys Ile Gly Cys Ala
      165      170      175
Val Asn Thr Cys Arg Lys Met Thr Val Trp Gly Glu Val Trp Glu Asn
      180      185      190
Ala Val Tyr Phe Val Cys Asn Tyr Ser Pro Lys Gly Asn Trp Ile Gly
      195      200      205
Glu Ala Pro Tyr Lys Asn Gly Arg Pro Cys Ser Glu Cys Pro Pro Ser
      210      215      220
Tyr Gly Gly Ser Cys Arg Asn Asn Leu Cys Tyr Arg Glu Glu Thr Tyr
      225      230      235      240
Thr
      241

```

```

<210> 1554
<211> 56
<212> PRT
<213> Homo sapiens

```

```

      <400> 1554
Met Leu Thr Ser Ser Gly Cys Glu Lys His Leu Ser Leu Ala Ser Val
      1      5      10      15
Ser Ser Leu Ser Leu Phe Cys Val Cys Cys Ser Ser Cys Gln Leu Leu
      20      25      30
Trp Glu Asn Glu Cys Glu Arg Gly Ser Gln Arg Gly Trp Pro Pro Gln
      35      40      45
Cys Lys Trp Gly Ser Ala Val *
      50      55

```

```

<210> 1555
<211> 64
<212> PRT
<213> Homo sapiens

```

```

      <400> 1555
Met Tyr Gly Trp Thr Met Thr Ser Thr Ile Ser Cys Val Phe Trp Ala
      1      5      10      15
Cys Pro Gln Arg Lys Lys Gly Leu Cys Lys Arg Glu Gly Val Gly Ser
      20      25      30
Ser Ile Leu Ile His Ser Leu Ala Ala Phe Val Met Phe Asp Cys Asn
      35      40      45
Leu Pro Leu Leu Val Arg Arg Val Arg Arg Ile His Tyr Pro Ala *
      50      55      60      63

```

```

<210> 1556

```


<211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1556
 Met Ser Arg Pro Met Met Thr Ser Ala Ser Trp Thr Ser Val Trp Ser
 1 5 10 15
 Val Phe Val Met Ile Tyr Leu Tyr Phe Glu Arg Lys Tyr Val Leu Pro
 20 25 30
 Leu Leu Gly Val Val Phe Tyr Thr Ile Ile Ser Asn Asp Ala Phe Ala
 35 40 45
 Leu Glu Ser Leu Leu Ser Gly Ile Ser Thr Ser Ala Phe Phe Cys Lys
 50 55 60
 Glu Leu Met Cys Ile Leu *
 65 70

<210> 1557
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 1557
 Met Gln Thr His Leu Gly Ala Ser Cys Leu Ser Leu Val Ile Arg Ile
 1 5 10 15
 Ala Leu Leu Phe Leu Val Gln Arg Asp Gly His Leu His Ser Arg Arg
 20 25 30
 Glu Ile Tyr Ala Ile Phe Thr Lys Gly Ser Leu Cys Pro Ala Phe Lys
 35 40 45
 Trp Ala Arg Val Gly Arg Glu Leu Phe Leu His Leu Leu Leu Ser Asn
 50 55 60
 Cys His Gln Leu Lys Ile Ile Leu Ile Pro Lys Cys His Ile Leu Gly
 65 70 75 80
 Trp His Ile Leu Ile Pro Phe Thr Ser Lys Ile Trp Asp Ser Tyr Phe
 85 90 95
 Ile Val Gln Cys Phe Ser His Phe Thr Thr Leu Ala Asn Val Phe Met
 100 105 110
 Glu Glu Asp Asn Pro Val Ser Glu Leu Gln Val Phe Gln *
 115 120 125

<210> 1558
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1558
 Met Lys Gly Ser Ile Phe Thr Leu Phe Leu Phe Ser Val Leu Phe Ala
 1 5 10 15
 Ile Ser Glu Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu
 20 25 30
 Tyr Ile Arg Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg
 35 40 45
 His Leu Glu Gly Ile Pro Gln Ala Gln Gln Ala Glu Thr Gly Asn Ser

```

      50              55              60
Phe Gln Leu Pro His Lys Arg Glu Phe Ser Glu Glu Asn Pro Ala Gln
 65              70              75              80
Asn Leu Pro Lys Val Asp Ala Ser Gly Glu Asp Arg Leu Trp Gly Gly
      85              90              95
Gln Met Pro Thr Glu Glu Leu Trp Lys Ser Lys Lys His Ser Val Met
      100              105              110
Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser Met
      115              120              125
Thr Asp Leu Ser Ala Leu Cys
      130              135

```

<210> 1559

<211> 203

<212> PRT

<213> Homo sapiens

```

      <400> 1559
Met Glu Leu Trp Gly Ala Tyr Leu Leu Leu Cys Leu Phe Ser Leu Leu
 1              5              10              15
Thr Gln Val Thr Thr Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val
      20              25              30
Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
      35              40              45
Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
      50              55              60
Gln Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys
      65              70              75              80
Cys Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu
      85              90              95
Asp Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser
      100              105              110
Glu Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu
      115              120              125
Ala Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp
      130              135              140
Val Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu
      145              150              155              160
Ile Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu
      165              170              175
Ser Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln
      180              185              190
Leu Pro Tyr Ile Cys Gln Phe Gly Ile Val *
      195              200              202

```

<210> 1560

<211> 59

<212> PRT

<213> Homo sapiens

```

      <400> 1560
Met Met Gly Val Ser Gly Cys Met Val Leu Leu Ala Pro Leu Leu Ala
 1              5              10              15

```

Arg Arg Ser Gln Ser Ser Leu Trp Lys Gln Phe Glu Lys Cys Ser Ala
 20 25 30
 Gly Pro Lys Leu Met Leu Ser Lys Phe Leu Pro Trp Gly Lys Leu Ala
 35 40 45
 Met Pro Ser Arg Met Ser Asn Phe Ser Pro *

<210> 1561
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1561
 Met Lys Phe Ser Asn Val Leu Cys Thr Cys Leu Leu Ile Leu Gln Lys
 1 5 10 15
 Val Lys Leu Phe Tyr Lys Thr Val His Glu Asn Ser Ser Phe Leu Pro
 20 25 30
 Cys Phe Ser His Leu Ile Pro Ser Pro Gln Arg Asn Leu Ser Ser Ile
 35 40 45
 Phe *

<210> 1562
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1562
 Met Leu Phe Ser Ala Val Lys Leu Tyr Cys Cys Gln Phe Trp His Leu
 1 5 10 15
 Ile Leu Asn Arg Val Pro Ser Pro Ser Leu Leu Tyr Ser Cys Gly Leu
 20 25 30
 Ser Thr Asn Val Leu Asn Thr Thr Val Cys Tyr Val Arg Asp Lys Lys
 35 40 45 48
 *

<210> 1563
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1563
 Met Glu Arg Leu Arg Gly Lys Cys Leu Leu Ile Ile Ala Leu Met Thr
 1 5 10 15
 Pro Leu Cys Thr Thr Thr Ile Ser Ser Ser Cys Ile Glu Gly Ser Ala
 20 25 30
 Asn Phe Phe Cys Lys Glu Pro Gly Ser Asn Cys Val Phe Glu Ala Leu
 35 40 45
 Trp Ala Ile Trp Ser Val Gly Gln Leu Leu Ser Ser Ser Val Val Ala

50
His Lys Gln Pro *
65 68

55

60

<210> 1564
<211> 53
<212> PRT
<213> Homo sapiens

<400> 1564
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1 5 10 15
Cys Trp Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
20 25 30
Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
35 40 45
Gln Tyr Phe Pro *
50 52

<210> 1565
<211> 236
<212> PRT
<213> Homo sapiens

<400> 1565
Met Pro Arg Arg Gly Leu Ile Leu His Thr Arg Thr His Trp Leu Leu
1 5 10 15
Leu Gly Leu Ala Leu Leu Cys Ser Leu Val Leu Phe Met Tyr Leu Leu
20 25 30
Glu Cys Ala Pro Gln Thr Asp Gly Asn Ala Ser Leu Pro Gly Val Val
35 40 45
Gly Glu Asn Tyr Gly Lys Glu Tyr Tyr Gln Ala Leu Leu Gln Glu Gln
50 55 60
Glu Glu His Tyr Gln Thr Arg Ala Thr Ser Leu Lys Arg Gln Ile Ala
65 70 75 80
Gln Leu Lys Gln Glu Leu Gln Glu Met Ser Glu Lys Met Arg Ser Leu
85 90 95
Gln Glu Arg Arg Asn Val Gly Ala Asn Gly Ile Gly Tyr Gln Ser Asn
100 105 110
Lys Glu Gln Ala Pro Ser Asp Leu Leu Glu Phe Leu His Ser Gln Ile
115 120 125
Asp Lys Ala Glu Val Ser Ile Gly Ala Lys Leu Pro Ser Glu Tyr Gly
130 135 140
Val Ile Pro Phe Glu Ser Phe Thr Leu Met Lys Val Phe Gln Leu Glu
145 150 155 160
Met Gly Leu Thr Arg His Pro Glu Glu Lys Pro Val Arg Lys Asp Lys
165 170 175
Arg Asp Glu Leu Val Glu Val Ile Glu Ala Gly Leu Glu Val Ile Asn
180 185 190
Asn Pro Asp Glu Asp Asp Glu Gln Glu Asp Glu Glu Gly Pro Leu Gly
195 200 205
Glu Lys Leu Ile Phe Asn Glu Asn Asp Phe Val Glu Gly Tyr Tyr Arg
210 215 220

Thr Glu Arg Asp Lys Gly Thr Gln Tyr Glu Leu Phe
 225 230 235 236

<210> 1566
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1566
 Met Thr Ala Gly Ile Met Pro Leu Gly Leu Cys Pro Cys Ser Cys Leu
 1 5 10 15
 Cys Leu His Ser Arg Thr Gly Ala Phe Ser Ala Val His Trp Ser Pro
 20 25 30
 Val Glu Gly Thr Pro Asp Pro Ser Leu Arg Glu Val Ile Ser Lys Gly
 35 40 45
 Cys Phe Ile Thr Val Phe Pro Gln Asn Asp Pro Ile Asp Thr Val Phe
 50 55 60
 Ser Gln Cys Pro Leu Thr Phe Glu His Ile Arg Glu *
 65 70 75 76

<210> 1567
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1567
 Met Leu Ile Gly Leu Leu Ala Trp Leu Gln Thr Val Pro Ala His Gly
 1 5 10 15
 Cys Gln Phe Leu Pro Ile Thr Ser Val Thr Ala Thr Val Tyr His Leu
 20 25 30
 Pro Val His Gln Leu Lys Gly Arg Ser Arg Val Gln Lys Asn Leu Thr
 35 40 45
 Leu Asp Asn Glu Gly Glu Gly Thr Trp Thr Thr Cys Leu Glu Phe Leu
 50 55 60
 Glu Ser Leu Ala Gly Trp Arg Leu Gly Trp Gly Val Ser Arg Gly Val
 65 70 75 80
 Arg Glu Trp Leu Cys Leu Gln Gln Val Ser Leu His Gln Thr Pro Gly
 85 90 95
 Leu Pro His Lys Gln Asp Leu *
 100 103

<210> 1568
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1568
 Met Val Val Asn Thr Met Ile Tyr Phe Phe Ile Phe Thr Tyr Thr Leu
 1 5 10 15
 Ala Lys Arg Ala Arg Val His Ile Asn Lys Asn Gly Asn Lys Ala Leu

20 25 30
Ala Glu Lys Asn Met His Leu Thr Asn His Val Asn Ser *
35 40 45

```
<210> 1569
<211> 50
<212> PRT
<213> Homo sapiens
```

```

<400> 1569
Met Leu Met Met Asp Thr Leu Trp Pro Ile Leu Leu Gln Thr Leu Lys
 1             5             10             15
Val Ile Ser Gln Val Gly His Ala Gly Pro Leu Ala Asn Met Ile His
      20             25             30
Asp Asn Pro Cys Ile Ile Ala Tyr Arg Ile Thr Leu Arg Leu Val Gly
      35             40             45
Pro *
49

```

```
<210> 1570
<211> 50
<212> PRT
<213> Homo sapiens
```

```

Met Val Gly Phe Asp Leu Leu Pro Leu Leu Phe Phe Pro Phe Phe Phe
1          5          10          15
Pro Ser Leu Ile Phe Phe Pro Phe Phe Ser Ser Pro Ser Pro Ser Phe
20          25          30
Gln Phe Leu Pro His Gln Glu Lys Ser Gln His Val Phe Pro Pro Asn
35          40          45
Ala *
49

```

```
<210> 1571
<211> 50
<212> PRT
<213> Homo sapiens
```

```

<400> 1571
Met Tyr Leu Trp Val Val Arg Trp Lys Trp Cys Leu Gln Lys Leu Gly
  1              5              10              15
Arg Arg Ile Leu Leu His Ser Leu His Asp Val Phe Ile Ala Asn Met
      20              25              30
Asp Asp Lys Gly Leu Cys Tyr Arg Gly Leu Arg Ala Pro Ser Phe Leu
      35              40              45
Leu *
49

```

<210> 1572
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1572
 Met Ser Ser Gly Arg Asn Phe Gly Phe Cys Phe Gln Trp Leu Pro Trp
 1 5 10 15
 Ala Leu Val Ala Thr Trp Ala Ser Val Thr Val Leu Met Ser Ser His
 20 25 30
 Ser Ser Ser Val Gly Ser Gly Leu Cys Pro Met Asp Phe Cys Ser Ser
 35 40 45
 Ser Arg Arg Leu Phe Ser Arg Phe Ser Ser Ile Ser Phe Leu Leu Ala
 50 55 60
 Ser Leu Leu Leu Ser Ser Thr Lys Ser Val Ala Met Pro Thr *
 65 70 75 79

<210> 1573
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1573
 Met Ile Asp Ile Val Arg Phe Ala Gly Leu Pro Ser Leu Leu Leu His
 1 5 10 15
 Ala Leu Cys Leu Ile Ser Leu Thr Tyr Pro Ser Ser Phe Arg His Ser
 20 25 30
 Ser Tyr Leu Ile Ser Pro Cys Ala Ser Phe Trp Ile Leu Tyr Leu Phe
 35 40 45
 Arg Pro Val *
 50 51

<210> 1574
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1574
 Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Gly Ala Trp Ala
 1 5 10 15
 Ile Pro Gly Gly Leu Gly Val Met Ala Pro Leu Thr Ala Thr Ala Pro
 20 25 30
 Glu Val Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu
 35 40 45
 Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Glu Cys Gly Pro Lys
 50 55 60
 Thr Leu Ala Lys Ala Glu Thr Lys Leu His Thr Ser Asn Ser Gly Gly
 65 70 75 80
 Arg Arg Asp Val Ser Glu Leu Val Tyr Thr Asp Val Leu Asp Arg Ser
 85 90 95
 Cys Ser Arg Asn Trp Gln Asp Tyr Gly Val Arg Glu Val Asp Gln Val

```

      100      105      110
Lys Arg Leu Thr Gly Pro Gly Leu Ser Glu Gly Pro Glu Pro Ser Ile
      115      120      125
Ser Val Met Val Thr Gly Gly Pro Trp His Thr Arg Leu Ser Arg Thr
      130      135      140
Cys Leu His Tyr Leu Gly Glu Phe Gly Glu Asp Gln Ile Tyr Glu Ala
      145      150      155      160
His Gln Gln Gly Arg Gly Ala Leu Glu Ala Leu Leu Cys Gly Gly Pro
      165      170      175
Pro Gly Gly Leu Leu Arg Glu Gly Val Ser His Lys Arg Arg Ala Leu
      180      185      190
Val Leu Asp Ser Thr Leu Leu *
      195      199

```

```

<210> 1575
<211> 51
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(51)
<223> Xaa = any amino acid or nothing

```

```

      <400> 1575
Met Leu Leu Gly Phe Gly Asn Val Phe Ile Leu Leu Ile Leu Xaa Thr
  1           5           10           15
Ala Ile Leu Trp Leu Lys Gly Ser Gln Arg Val Pro Glu Glu Pro Gly
      20           25           30
Glu Gln Pro Ile Tyr Met Asn Phe Ser Glu Pro Leu Thr Lys Asp Met
      35           40           45
Ala Thr *
      50

```

```

<210> 1576
<211> 124
<212> PRT
<213> Homo sapiens

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```

      <400> 1576
Met Arg Ile Arg Leu Leu Cys Cys Val Ala Phe Ser Leu Leu Trp Ala
  1           5           10           15
Gly Pro Val Ile Ala Gly Ile Thr Gln Ala Pro Thr Ser Gln Ile Leu
      20           25           30
Ala Ala Gly Arg Arg Met Thr Leu Arg Cys Thr Gln Asp Met Arg His
      35           40           45
Asn Ala Met Tyr Trp Tyr Arg Gln Asp Leu Gly Leu Gly Leu Arg Leu
      50           55           60
Ile His Tyr Ser Asn Thr Ala Gly Thr Thr Gly Lys Gly Glu Val Pro
      65           70           75           80
Asp Gly Tyr Ser Val Ser Arg Ala Asn Thr Asp Asp Phe Pro Leu Thr
      85           90           95
Leu Ala Ser Ala Val Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
      100           105           110

```


Ser Asp Gly Ala Ser Gly Ser Pro His Thr Gly Glu
 115 120 124

<210> 1577
 <211> 860
 <212> PRT
 <213> Homo sapiens

<400> 1577
 Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
 1 5 10 15
 Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
 20 25 30
 Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
 35 40 45
 Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
 50 55 60
 Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
 65 70 75 80
 Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
 85 90 95
 Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
 100 105 110
 Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
 115 120 125
 Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
 130 135 140
 Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
 145 150 155 160
 Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
 165 170 175
 Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
 180 185 190
 Asp Arg Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
 195 200 205
 Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
 210 215 220
 Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
 225 230 235 240
 Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
 245 250 255
 Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
 260 265 270
 Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
 275 280 285
 Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
 290 295 300
 Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
 305 310 315 320
 Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
 325 330 335
 Ser His Ala Pro Leu Thr Val Val Ser Ser Ser Gly Gln Ile Arg Val
 340 345 350
 His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
 355 360 365
 Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly

370	375	380
Asn Trp Gly Cys Tyr Thr Glu Gln Gln Arg Cys Asp Gly Tyr Trp His		
385	390	395
Cys Pro Asn Gly Arg Asp Glu Thr Asn Cys Thr Met Cys Gln Lys Glu		
	405	410
Glu Phe Pro Cys Ser Arg Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg		
	420	425
Cys Asn Tyr Gln Asn His Cys Pro Asn Gly Ser Asp Glu Lys Asn Cys		
	435	440
Phe Phe Cys Gln Pro Gly Asn Phe His Cys Lys Asn Asn Arg Cys Val		
	450	455
Phe Glu Ser Trp Val Cys Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser		
465	470	475
Asp Glu Glu Asn Cys Pro Val Ile Val Pro Thr Arg Val Ile Thr Ala		
	485	490
Ala Val Ile Gly Ser Leu Ile Cys Gly Leu Leu Leu Val Ile Ala Leu		
	500	505
Gly Cys Thr Cys Lys Leu Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser		
	515	520
Phe Glu Thr Gln Leu Ser Arg Val Glu Ala Glu Leu Leu Arg Arg Glu		
	530	535
Ala Pro Pro Ser Tyr Gly Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro		
545	550	555
Val Glu Asp Phe Pro Val Cys Ser Pro Asn Gln Ala Ser Val Leu Glu		
	565	570
Asn Leu Arg Leu Ala Val Arg Ser Gln Leu Gly Phe Thr Ser Val Arg		
	580	585
Leu Pro Met Ala Gly Arg Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn		
	595	600
Phe Ala Arg Ser Arg His Ser Gly Ser Leu Ala Leu Val Ser Ala Asp		
	610	615
Gly Asp Glu Val Val Pro Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg		
625	630	635
Asn His Thr His Arg Ser Leu Phe Ser Val Glu Ser Asp Asp Thr Asp		
	645	650
Thr Glu Asn Glu Arg Arg Asp Met Ala Gly Ala Ser Gly Gly Val Ala		
	660	665
Ala Pro Leu Pro Gln Lys Val Pro Pro Thr Thr Ala Val Glu Ala Thr		
	675	680
Val Gly Ala Cys Ala Ser Ser Thr Gln Ser Thr Arg Gly Gly His		
	690	695
Ala Asp Asn Gly Arg Asp Val Thr Ser Val Glu Pro Pro Ser Val Ser		
705	710	715
Pro Ala Arg His Gln Leu Thr Ser Ala Leu Ser Arg Met Thr Gln Gly		
	725	730
Leu Arg Trp Val Arg Phe Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln		
	740	745
Asn Gln Ser Pro Leu Arg Gln Leu Asp Asn Gly Val Ser Gly Arg Glu		
	755	760
Asp Asp Asp Asp Val Glu Met Leu Ile Pro Ile Ser Asp Gly Ser Ser		
	770	775
Asp Phe Asp Val Asn Asp Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser		
785	790	795
Asp Gln Gly Gln Gly Leu Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly		
	805	810
Val Arg Pro Ser Asn Arg Asp Gly Pro Cys Glu Arg Cys Gly Ile Val		
	820	825
His Thr Ala Gln Ile Pro Asp Thr Cys Leu Glu Val Thr Leu Lys Asn		
	835	840
		845

Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys *
 850 855 859

<210> 1578
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1578
 Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
 1 5 10 15
 Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
 20 25 30
 Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
 35 40 45
 Cys Cys Val Val Met Ser Pro Leu Pro *
 50 55 57

<210> 1579
 <211> 572
 <212> PRT
 <213> Homo sapiens

<400> 1579
 Met Arg Arg Arg Ser Arg Met Leu Leu Cys Phe Ala Phe Leu Trp Val
 1 5 10 15
 Leu Gly Ile Ala Tyr Tyr Met Tyr Ser Gly Gly Gly Ser Ala Leu Ala
 20 25 30
 Gly Gly Ala Gly Gly Gly Ala Gly Arg Lys Glu Asp Trp Asn Glu Ile
 35 40 45
 Asp Pro Ile Lys Lys Lys Asp Leu His His Ser Asn Gly Glu Glu Lys
 50 55 60
 Ala Gln Ser Met Glu Thr Leu Pro Pro Gly Lys Val Arg Trp Pro Asp
 65 70 75 80
 Phe Asn Gln Glu Ala Tyr Val Gly Gly Thr Met Val Arg Ser Gly Gln
 85 90 95
 Asp Pro Tyr Ala Arg Asn Lys Phe Asn Gln Val Glu Ser Asp Lys Leu
 100 105 110
 Arg Met Asp Arg Ala Ile Pro Asp Thr Arg His Asp Gln Cys Gln Arg
 115 120 125
 Lys Gln Trp Arg Val Asp Leu Pro Ala Thr Ser Val Val Ile Thr Phe
 130 135 140
 His Asn Glu Ala Arg Ser Ala Leu Leu Arg Thr Val Val Ser Val Leu
 145 150 155 160
 Lys Lys Ser Pro Pro His Leu Ile Lys Glu Ile Ile Leu Val Asp Asp
 165 170 175
 Tyr Ser Asn Asp Pro Glu Asp Gly Ala Leu Leu Gly Lys Ile Glu Lys
 180 185 190
 Val Arg Val Leu Arg Asn Asp Arg Arg Glu Gly Leu Met Arg Ser Arg
 195 200 205
 Val Arg Gly Ala Asp Ala Ala Gln Ala Lys Val Leu Thr Phe Leu Asp
 210 215 220
 Ser His Cys Glu Cys Asn Glu His Trp Leu Glu Pro Leu Leu Glu Arg

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225          230          235          240
Val Ala Glu Asp Arg Thr Arg Val Val Ser Pro Ile Ile Asp Val Ile
          245          250          255
Asn Met Asp Asn Phe Gln Tyr Val Gly Ala Ser Ala Asp Leu Lys Gly
          260          265          270
Gly Phe Asp Trp Asn Leu Val Phe Lys Trp Asp Tyr Met Thr Pro Glu
          275          280          285
Gln Arg Arg Ser Arg Gln Gly Asn Pro Val Ala Pro Ile Lys Thr Pro
          290          295          300
Met Ile Ala Gly Gly Leu Phe Val Met Asp Lys Phe Tyr Phe Glu Glu
305          310          315          320
Leu Gly Lys Tyr Asp Met Met Met Asp Val Trp Gly Gly Glu Asn Leu
          325          330          335
Glu Ile Ser Phe Arg Val Trp Gln Cys Gly Gly Ser Leu Glu Ile Ile
          340          345          350
Pro Cys Ser Arg Val Gly His Val Phe Arg Lys Gln His Pro Tyr Thr
          355          360          365
Phe Pro Gly Gly Ser Gly Thr Val Phe Ala Arg Asn Thr Arg Arg Ala
          370          375          380
Ala Glu Val Trp Met Asp Glu Tyr Lys Asn Phe Tyr Tyr Ala Ala Val
385          390          395          400
Pro Ser Ala Arg Asn Val Pro Tyr Gly Asn Ile Gln Ser Arg Leu Glu
          405          410          415
Leu Arg Lys Lys Leu Ser Cys Lys Pro Phe Lys Trp Tyr Leu Glu Asn
          420          425          430
Val Tyr Pro Glu Leu Arg Val Pro Asp His Gln Asp Ile Ala Phe Gly
          435          440          445
Ala Leu Gln Gln Gly Thr Asn Cys Leu Asp Thr Leu Gly His Phe Ala
          450          455          460
Asp Gly Val Val Gly Val Tyr Glu Cys His Asn Ala Gly Gly Asn Gln
465          470          475          480
Glu Trp Ala Leu Thr Lys Glu Lys Ser Val Lys His Met Asp Leu Cys
          485          490          495
Leu Thr Val Val Asp Arg Ala Pro Gly Ser Leu Ile Lys Leu Gln Gly
          500          505          510
Cys Arg Glu Asn Asp Ser Arg Gln Lys Trp Glu Gln Ile Glu Gly Asn
          515          520          525
Ser Lys Leu Arg His Val Gly Ser Asn Leu Cys Leu Asp Ser Arg Thr
          530          535          540
Ala Lys Ser Gly Gly Leu Ser Val Glu Val Cys Gly Pro Ala Leu Ser
545          550          555          560
Gln Gln Trp Lys Phe Thr Leu Asn Leu Gln Gln *
          565          570 571

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<210> 1580

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1580

```

Met Glu Arg Pro Leu Cys Ser His Leu Cys Ser Cys Leu Ala Met Leu
 1          5          10          15
Ala Leu Leu Ser Pro Leu Ser Leu Ala Gln Tyr Asp Ser Trp Pro His
          20          25          30
Tyr Pro Glu Tyr Phe Gln Gln Pro Ala Pro Glu Tyr His Gln Pro Gln
          35          40          45

```

Ala Pro Ala Asn Val Ala Lys Ile Gln Leu Arg Leu Ala Gly Gln Lys
 50 55 60
 Arg Lys His Ser Glu Gly Pro Gly Gly Gly Val Leu *
 65 70 75 76

<210> 1581
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 1581
 Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly Met Leu
 1 5 10 15
 Val Ala Ser Cys Leu Gly Arg Leu Ser Trp Tyr Asp Pro Asp Phe Gln
 20 25 30
 Ala Arg Leu Thr Arg Ser Asn Ser Lys Cys Gln Gly Gln Leu Glu Val
 35 40 45
 Tyr Leu Lys Asp Gly Trp His Met Val Cys Ser Gln Ser Trp Gly Arg
 50 55 60
 Ser Ser Lys Gln Trp Glu Asp Pro Ser Gln Ala Ser Lys Val Cys Gln
 65 70 75 80
 Arg Leu Asn Cys Gly Val Pro Leu Ser Leu Gly Pro Phe Leu Val Thr
 85 90 95
 Tyr Thr Pro Gln Ser Ser Ile Ile Cys Tyr Gly Gln Leu Gly Ser Phe
 100 105 110
 Ser Asn Cys Ser His Ser Arg Asn Asp Met Cys His Ser Leu Gly Leu
 115 120 125
 Thr Cys Leu Glu Pro Gln Lys Thr Thr Pro Pro Thr Thr Arg Pro Pro
 130 135 140
 Pro Thr Thr Thr Pro Glu Pro Thr Ala Pro Pro Arg Leu Gln Leu Val
 145 150 155 160
 Ala Gln Ser Gly Gly Gln His Cys Ala Gly Val Val Glu Phe Tyr Ser
 165 170 175
 Gly Ser Leu Gly Gly Thr Ile Ser Tyr Glu Ala Gln Asp Lys Thr Gln
 180 185 190
 Asp Leu Glu Asn Phe Leu Cys Asn Asn Leu Gln Cys Gly Ser Phe Leu
 195 200 205
 Lys His Leu Pro Glu Thr Glu Ala Gly Arg Ala Gln Asp Pro Gly Glu
 210 215 220
 Pro Arg Glu His Gln Pro Leu Pro Ile Gln Trp Lys Ile Gln Asn Ser
 225 230 235 240
 Ser Cys Thr Ser Leu Glu His Cys Phe Arg Lys Ile Lys Pro Gln Lys
 245 250 255
 Ser Gly Arg Val Leu Ala Leu Leu Cys Ser Gly Phe Gln Pro Lys Val
 260 265 270
 Gln Ser Arg Leu Val Gly Gly Ser Ser Ile Cys Glu Gly Thr Val Glu
 275 280 285
 Val Arg Gln Gly Ala Gln Trp Ala Ala Leu Cys Asp Ser Ser Ser Ala
 290 295 300
 Arg Ser Ser Leu Arg Trp Glu Glu Val Cys Arg Glu Gln Gln Cys Gly
 305 310 315 320
 Ser Val Asn Ser Tyr Arg Val Leu Asp Ala Gly Asp Pro Thr Ser Arg
 325 330 335
 Gly Leu Phe Cys Pro His Gln Lys Leu Ser Gln Cys His Glu Leu Trp
 340 345 350
 Glu Arg Asn Ser Tyr Cys Lys Lys Val Phe Val Thr Cys Gln Asp Pro

355	360	365
Asn Pro Ala Gly Leu Ala Ala Gly Thr Val Ala Ser Ile Ile Leu Ala		
370	375	380
Leu Val Leu Leu Val Val Leu Leu Val Val Cys Gly Pro Leu Ala Tyr		
385	390	395
Lys Lys Leu Val Lys Lys Phe Arg Gln Lys Lys Gln Arg Gln Trp Ile		400
405	410	415
Gly Pro Thr Gly Met Asn Gln Asn Met Ser Phe His Arg Asn His Thr		
420	425	430
Ala Thr Val Arg Ser His Ala Glu Asn Pro Thr Ala Ser His Val Asp		
435	440	445
Asn Glu Tyr Ser Gln Pro Pro Arg Asn Ser Arg Leu Ser Ala Tyr Pro		
450	455	460
Ala Leu Glu Gly Ala Leu His Arg Ser Ser Met Gln Pro Asp Asn Ser		
465	470	475
Ser Asp Ser Asp Tyr Asp Leu His Gly Ala Gln Arg Leu *		480
485	490	493

<210> 1582

<211> 329

<212> PRT

<213> Homo sapiens

<400> 1582

Met Gln Gly Leu Cys Ile Ser Val Ala Val Phe Leu His Tyr Phe Leu		
1	5	10
Leu Val Ser Phe Thr Trp Met Gly Leu Glu Ala Phe His Met Tyr Leu		15
20	25	30
Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Lys Tyr Ile Leu Lys		
35	40	45
Phe Cys Ile Val Gly Trp Gly Val Pro Ala Val Val Val Thr Ile Ile		
50	55	60
Leu Thr Ile Ser Pro Asp Asn Tyr Gly Leu Gly Ser Tyr Gly Lys Phe		
65	70	75
Pro Asn Gly Ser Pro Asp Asp Phe Cys Trp Ile Asn Asn Asn Ala Val		
85	90	95
Phe Tyr Ile Thr Val Val Gly Tyr Phe Cys Val Ile Phe Leu Leu Asn		
100	105	110
Val Ser Met Phe Ile Val Val Leu Val Gln Leu Cys Arg Ile Lys Lys		
115	120	125
Lys Lys Gln Leu Gly Ala Gln Arg Lys Thr Ser Ile Gln Asp Leu Arg		
130	135	140
Ser Ile Ala Gly Leu Thr Phe Leu Leu Gly Ile Thr Trp Gly Phe Ala		
145	150	155
Phe Phe Ala Trp Gly Pro Val Asn Val Thr Phe Met Tyr Leu Phe Ala		
165	170	175
Ile Phe Asn Thr Leu Gln Gly Phe Phe Ile Phe Ile Phe Tyr Cys Val		
180	185	190
Ala Lys Glu Asn Val Arg Lys Gln Trp Arg Arg Tyr Leu Cys Cys Gly		
195	200	205
Lys Leu Arg Leu Ala Glu Asn Ser Asp Trp Ser Lys Thr Ala Thr Asn		
210	215	220
Gly Leu Lys Lys Gln Thr Val Asn Gln Gly Val Ser Ser Ser Ser Asn		
225	230	235
Ser Leu Gln Ser Ser Asn Ser Thr Asn Ser Thr Thr Leu Leu Val		
245	250	255

Asn Asn Asp Cys Ser Val His Ala Ser Gly Asn Gly Asn Ala Ser Thr
 260 265 270
 Glu Arg Asn Gly Val Ser Phe Ser Val Gln Asn Gly Asp Val Cys Leu
 275 280 285
 His Asp Phe Thr Gly Lys Gln His Met Phe Asn Glu Lys Glu Asp Ser
 290 295 300
 Cys Asn Gly Lys Gly Arg Met Ala Leu Arg Arg Thr Ser Lys Arg Gly
 305 310 315 320
 Ser Leu His Phe Ile Glu Gln Met *
 325 328

<210> 1583

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1583

Met Gly Met Gly Arg Leu Leu Pro Met Ala Trp Val Leu Ala Gly Ile
 1 5 10 15
 Pro Thr Gly Ala Gln Gln Ser Trp Arg Arg Pro Trp Ser Gly Ser Ala
 20 25 30
 Pro Arg Cys Ala Ser Cys Gly Ser Ala Trp Arg Cys Cys Ala Val Arg
 35 40 45 48
 *

<210> 1584

<211> 671

<212> PRT

<213> Homo sapiens

<400> 1584

Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
 1 5 10 15
 Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
 20 25 30
 Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
 35 40 45
 Pro Arg Gly Pro Glu Gln Glu Glu Cys Glu Gly Leu Leu Gln Gln Trp
 50 55 60
 Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
 65 70 75 80
 Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp
 85 90 95
 Asn Pro Gly Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg
 100 105 110
 Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro
 115 120 125
 Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly
 130 135 140
 Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp
 145 150 155 160
 Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu

				165					170					175	
Asp	Pro	Ala	Val	Leu	Ala	Trp	Ser	Ile	Ala	Pro	Glu	Pro	Val	Pro	Gln
			180					185					190		
Glu	Glu	Ala	Ser	Ile	Trp	Pro	Phe	Glu	Gly	Leu	Gly	Gln	Leu	Gln	Pro
		195					200					205			
Pro	Ala	Val	Glu	Ile	Pro	Tyr	His	Glu	Ile	Leu	Trp	Arg	Glu	Trp	Glu
	210				215					220					
Asp	Phe	Ser	Thr	Gln	Pro	Asp	Ala	Gln	Gly	Leu	Lys	Ala	Gly	Asp	Gly
225				230						235				240	
Pro	Gln	Phe	Gln	Phe	Thr	Leu	Met	Ser	Tyr	Asn	Ile	Leu	Ala	Gln	Asp
			245					250					255		
Leu	Met	Gln	Gln	Ser	Ser	Glu	Leu	Tyr	Leu	His	Cys	His	Pro	Asp	Ile
		260					265					270			
Leu	Asn	Trp	Asn	Tyr	Arg	Phe	Val	Asn	Leu	Met	Gln	Glu	Phe	Gln	His
	275					280					285				
Trp	Asp	Pro	Asp	Ile	Leu	Cys	Leu	Gln	Glu	Val	Gln	Glu	Asp	His	Tyr
290				295						300					
Trp	Glu	Gln	Leu	Glu	Pro	Ser	Leu	Arg	Met	Met	Gly	Phe	Thr	Cys	Phe
305				310						315					320
Tyr	Lys	Arg	Arg	Thr	Gly	Cys	Lys	Thr	Asp	Gly	Cys	Ala	Val	Cys	Tyr
			325						330					335	
Lys	Pro	Thr	Arg	Phe	Arg	Leu	Leu	Cys	Ala	Ser	Pro	Val	Glu	Tyr	Phe
		340					345					350			
Arg	Pro	Gly	Leu	Glu	Leu	Leu	Asn	Arg	Asp	Asn	Val	Gly	Leu	Val	Leu
	355					360					365				
Leu	Leu	Gln	Pro	Leu	Val	Pro	Glu	Gly	Leu	Gly	Gln	Val	Ser	Val	Ala
370				375						380					
Pro	Leu	Cys	Val	Ala	Asn	Thr	His	Ile	Leu	Tyr	Asn	Pro	Arg	Arg	Gly
385				390						395					400
Asp	Val	Lys	Leu	Ala	Gln	Met	Ala	Ile	Leu	Leu	Ala	Glu	Val	Asp	Lys
			405					410					415		
Val	Ala	Arg	Leu	Ser	Asp	Gly	Ser	His	Cys	Pro	Ile	Ile	Leu	Cys	Gly
	420						425					430			
Asp	Leu	Asn	Ser	Val	Pro	Asp	Ser	Pro	Leu	Tyr	Asn	Phe	Ile	Arg	Asp
	435					440					445				
Gly	Glu	Leu	Gln	Tyr	His	Gly	Met	Pro	Ala	Trp	Lys	Val	Ser	Gly	Gln
450				455							460				
Glu	Asp	Phe	Ser	His	Gln	Leu	Tyr	Gln	Arg	Lys	Leu	Gln	Ala	Pro	Leu
465				470					475						480
Trp	Pro	Ser	Ser	Leu	Gly	Ile	Thr	Asp	Cys	Cys	Gln	Tyr	Val	Thr	Ser
			485					490						495	
Cys	His	Pro	Lys	Arg	Ser	Glu	Arg	Arg	Lys	Tyr	Gly	Arg	Asp	Phe	Leu
		500					505					510			
Leu	Arg	Phe	Arg	Phe	Cys	Ser	Ile	Ala	Cys	Gln	Arg	Pro	Val	Gly	Leu
	515					520					525				
Val	Leu	Met	Glu	Gly	Val	Thr	Asp	Thr	Lys	Pro	Glu	Arg	Pro	Ala	Gly
530					535						540				
Trp	Ala	Glu	Ser	Val	Leu	Glu	Glu	Asp	Ala	Ser	Glu	Leu	Glu	Pro	Ala
545				550						555					560
Phe	Ser	Arg	Thr	Val	Gly	Thr	Ile	Gln	His	Cys	Leu	His	Leu	Thr	Ser
			565					570					575		
Val	Tyr	Thr	His	Phe	Leu	Pro	Gln	Arg	Gly	Arg	Pro	Glu	Val	Thr	Thr
	580						585					590			
Met	Pro	Leu	Gly	Leu	Gly	Met	Thr	Val	Asp	Tyr	Ile	Phe	Phe	Ser	Ala
	595					600						605			
Glu	Ser	Cys	Glu	Asn	Gly	Asn	Arg	Thr	Asp	His	Arg	Leu	Tyr	Arg	Asp
610				615							620				
Gly	Thr	Leu	Lys	Leu	Leu	Gly	Arg	Leu	Ser	Leu	Leu	Ser	Glu	Glu	Ile
625				630						635					640

Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His
 645 650 655
 Leu Cys Leu Leu Ala Ser Leu Gly Met Glu Val Thr Ala Pro *
 660 665 670

<210> 1585

<211> 318

<212> PRT

<213> Homo sapiens

<400> 1585

Met Met Cys Leu Lys Ile Leu Arg Ile Ser Leu Ala Ile Leu Ala Gly
 1 5 10 15
 Trp Ala Leu Cys Ser Ala Asn Ser Glu Leu Gly Trp Thr Arg Lys Lys
 20 25 30
 Ser Leu Val Glu Arg Glu His Leu Asn Gln Val Leu Leu Glu Gly Glu
 35 40 45
 Arg Cys Trp Leu Gly Ala Lys Val Arg Arg Pro Arg Ala Ser Pro Gln
 50 55 60
 His His Leu Phe Gly Val Tyr Pro Ser Arg Ala Gly Asn Tyr Leu Arg
 65 70 75 80
 Pro Tyr Pro Val Gly Glu Gln Glu Ile His His Thr Gly Arg Ser Lys
 85 90 95
 Pro Asp Thr Glu Gly Asn Ala Val Ser Leu Val Pro Pro Asp Leu Thr
 100 105 110
 Glu Asn Pro Ala Gly Leu Arg Gly Ala Val Glu Glu Pro Ala Ala Pro
 115 120 125
 Trp Val Gly Asp Ser Pro Ile Gly Gln Ser Glu Leu Leu Gly Asp Asp
 130 135 140
 Asp Ala Tyr Leu Gly Asn Gln Arg Ser Lys Glu Ser Leu Gly Glu Ala
 145 150 155 160
 Gly Ile Gln Lys Gly Ser Ala Met Ala Ala Thr Thr Thr Thr Ala Ile
 165 170 175
 Phe Thr Thr Leu Asn Glu Pro Lys Pro Glu Thr Gln Arg Arg Gly Trp
 180 185 190
 Ala Lys Ser Arg Gln Arg Arg Gln Val Trp Lys Arg Arg Ala Glu Asp
 195 200 205
 Gly Gln Gly Asp Ser Gly Ile Ser Ser His Phe Gln Pro Trp Pro Lys
 210 215 220
 His Ser Leu Lys His Arg Val Lys Lys Ser Pro Pro Glu Glu Ser Asn
 225 230 235 240
 Gln Asn Gly Gly Glu Gly Ser Tyr Arg Glu Ala Glu Thr Phe Asn Ser
 245 250 255
 Gln Val Gly Leu Pro Ile Leu Tyr Phe Ser Gly Arg Arg Glu Arg Leu
 260 265 270
 Leu Leu Arg Pro Glu Val Leu Ala Glu Ile Pro Arg Glu Ala Phe Thr
 275 280 285
 Val Glu Ala Trp Val Lys Pro Glu Gly Gly Gln Asn Asn Pro Ala Ile
 290 295 300
 Ile Ala Gly Asn Thr Leu Leu Leu Gly Phe Leu Lys Ser *
 305 310 315 317

<210> 1586

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1586

```

Met Ile Ala Leu Thr Gln Leu Leu Thr Phe Ile Leu Ser Cys Asn Ser
 1           5           10           15
Ser Leu Leu His Ile Phe Pro Phe Cys Glu Gln Val Leu Val Glu Asn
      20           25           30
Gly Thr Lys Ala Gly His Ser Leu Leu Met Asp Ala Arg Asp Leu Val
      35           40           45
Leu Lys Gly Lys Glu Lys Ser Pro Leu Asp Pro Arg Pro Gly Phe Val
      50           55           60
Phe Ala Pro Val Ser Ile Thr Ser Ala Cys Pro Thr Thr Arg Ile *
 65           70           75           79

```

<210> 1587

<211> 316

<212> PRT

<213> Homo sapiens

<400> 1587

```

Met Phe Phe Gly Ser Ala Ala Leu Gly Thr Leu Thr Gly Leu Ile Ser
 1           5           10           15
Ala Leu Val Leu Lys His Ile Asp Leu Arg Lys Thr Pro Ser Leu Glu
      20           25           30
Phe Gly Met Met Ile Ile Phe Ala Tyr Leu Pro Tyr Gly Leu Ala Glu
      35           40           45
Gly Ile Ser Leu Ser Gly Ile Met Ala Ile Leu Phe Ser Gly Ile Val
      50           55           60
Met Ser His Tyr Thr His His Asn Leu Ser Pro Val Thr Gln Ile Leu
 65           70           75           80
Met Gln Gln Thr Leu Arg Thr Val Ala Phe Leu Cys Glu Thr Cys Val
      85           90           95
Phe Ala Phe Leu Gly Leu Ser Ile Phe Ser Phe Pro His Lys Phe Glu
      100          105          110
Ile Ser Phe Val Ile Trp Cys Ile Val Leu Val Leu Phe Gly Arg Ala
      115          120          125
Val Asn Ile Phe Pro Leu Ser Tyr Leu Leu Asn Phe Phe Arg Asp His
      130          135          140
Lys Ile Thr Pro Lys Met Met Phe Ile Met Trp Phe Ser Gly Leu Arg
 145          150          155          160
Gly Ala Ile Pro Tyr Ala Leu Ser Leu His Leu Asp Leu Glu Pro Met
      165          170          175
Glu Lys Arg Gln Leu Ile Gly Thr Thr Thr Ile Val Ile Val Leu Phe
      180          185          190
Thr Ile Leu Leu Leu Gly Gly Ser Thr Met Pro Leu Ile Arg Leu Met
      195          200          205
Asp Ile Glu Asp Ala Lys Ala His Arg Arg Asn Lys Lys Asp Val Asn
      210          215          220
Leu Ser Lys Thr Glu Lys Met Gly Asn Thr Val Glu Ser Glu His Leu
 225          230          235          240
Ser Glu Leu Thr Glu Glu Tyr Glu Ala His Tyr Ile Arg Arg Gln
      245          250          255
Asp Leu Lys Gly Phe Val Trp Leu Asp Ala Lys Tyr Leu Asn Pro Phe
      260          265          270

```

```

Phe Thr Arg Arg Leu Thr Gln Glu Asp Leu His His Gly Arg Ile Gln
      275              280              285
Met Lys Thr Leu Thr Asn Lys Trp Tyr Glu Glu Val Arg Gln Gly Pro
      290              295              300
Ser Gly Ser Glu Asp Asp Glu Gln Glu Leu Leu *
      305              310              315

```

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<210> 1588
<211> 53
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(53)
<223> Xaa = any amino acid or nothing

```

```

<400> 1588
Met Cys Ser Leu Met Phe Gly Ser Ser Val Phe Val Cys Phe Pro Pro
  1           5           10           15
Cys Val Pro Leu Pro Ala Pro His Ser Gly Gly Pro Pro His Arg Ala
      20           25           30
Gly Arg Ser Val Phe Ser Ala Met Lys Leu Gly Lys Xaa Arg Ser His
      35           40           45
Lys Glu Glu Pro Gln
      50           53

```

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<210> 1589
<211> 437
<212> PRT
<213> Homo sapiens

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<400> 1589
Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
  1           5           10           15
Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
      20           25           30
Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
      35           40           45
Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
      50           55           60
Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
      65           70           75           80
Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
      85           90           95
Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
      100          105          110
Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
      115          120          125
Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
      130          135          140
Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
      145          150          155          160
Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser

```

Val	Lys	Cys	Glu	165	His	Cys	Pro	Cys	170	Pro	Ser	Asp	Lys	Pro	Thr	Ser	175	
Thr	Ser	Arg	Asn	180	Val	Lys	Arg	Ala	185	Cys	Ser	Asp	Leu	Glu	Phe	Arg	Glu	190
Val	Ala	Asn	Arg	195	Leu	Arg	Asp	Trp	200	Phe	Lys	Ala	Leu	His	Glu	Ser	Gly	205
Ser	Gln	Asn	Lys	210	Lys	Thr	Lys	Thr	215	Leu	Leu	Arg	Pro	Glu	Arg	Ser	Arg	220
225	Phe	Asp	Thr	Ser	230	Ile	Leu	Pro	Ile	Cys	Lys	Asp	Ser	Leu	Gly	Trp	Met	240
245	Phe	Asn	Arg	Leu	250	Asp	Thr	Asn	Tyr	Asp	Leu	Leu	Leu	Asp	Gln	Ser	Glu	255
260	Leu	Arg	Ser	Ile	265	Tyr	Leu	Asp	Lys	Asn	Glu	Gln	Cys	Thr	Lys	Ala	Phe	270
275	Phe	Asn	Ser	Cys	280	Asp	Thr	Tyr	Lys	Asp	Ser	Leu	Ile	Ser	Asn	Asn	Glu	285
290	Trp	Cys	Tyr	Cys	295	Phe	Gln	Arg	Gln	Gln	Asp	Pro	Pro	Cys	Gln	Thr	Glu	300
305	Leu	Ser	Asn	Ile	310	Gln	Lys	Arg	Gln	Gly	Val	Lys	Lys	Leu	Leu	Gly	Gln	315
325	Tyr	Ile	Pro	Leu	330	Cys	Asp	Glu	Asp	Gly	Tyr	Tyr	Lys	Pro	Thr	Gln	Cys	335
340	His	Gly	Ser	Val	345	Gly	Gln	Cys	Trp	Cys	Val	Asp	Arg	Tyr	Gly	Asn	Glu	350
355	Val	Met	Gly	Ser	360	Arg	Ile	Asn	Gly	Val	Ala	Asp	Cys	Ala	Ile	Asp	Phe	365
370	Glu	Ile	Ser	Gly	375	Asp	Phe	Ala	Ser	Gly	Asp	Phe	His	Glu	Trp	Thr	Asp	380
385	Asp	Glu	Asp	Asp	390	Glu	Asp	Asp	Ile	Met	Asn	Asp	Glu	Asp	Glu	Ile	Glu	395
405	Asp	Asp	Asp	Glu	410	Asp	Glu	Gly	Asp	Asp	Asp	Asp	Gly	Gly	Asp	Asp	His	415
420	Asp	Val	Tyr	Ile	425	*												430
435																		436

<210> 1590

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1590

Met	Phe	Gln	Ile	Tyr	Phe	Ser	Phe	Cys	Gln	Leu	Cys	Phe	Ile	Trp	Ser			
1				5					10				15					
Cys	Phe	Phe	Asn	Ser	Arg	Glu	Thr	Phe	Asn	Glu	Ile	Tyr	Lys	Phe	Phe			
			20					25					30					
Leu	Lys	Ser	Val	Met	Val	Arg	Lys	Ile	Phe	Glu	Cys	His	Lys	Met	Ser			
			35				40					45						

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<210> 1591

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1591

```

Met Ser Leu Asn Val Leu Leu Ala Leu Phe Cys Leu Leu Leu Ala Lys
 1           5           10           15
Glu Arg Thr Thr Thr Lys Arg Cys Ile Ser Cys Leu Pro Phe Ser Thr
           20           25           30
Phe Phe Ser Phe Gly Pro Leu Gln Lys Val Thr Asp Pro Ser Ser Trp
           35           40           45
Ala Leu Ala Phe Ser Val Cys Gln Ala Cys Thr Arg Ser Glu Leu Pro
           50           55           60
Gly Ala Leu Arg Thr Arg Gly Ser Thr
65           70           73

```

<210> 1592

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1592

```

Met Tyr Phe Ser Leu Ile Phe Leu Val Phe Phe Phe Leu Ser Leu Pro
 1           5           10           15
Leu Ser Ser Ser Ser Ser Glu Pro Thr Ser Ser Ile Leu Gly Phe Ser
           20           25           30
Ser Ser Ser Leu Ser Ser Ser Ser Phe Ser Pro Phe Ser Ser Ala
           35           40           45
Ser Ser Ser Leu Ile Ser Phe Ser Arg Ser Phe Ser Lys *
           50           55           60 61

```

<210> 1593

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1593

```

Met Arg Ala Met Leu Gly Thr Cys Ala Leu Gly Gln Phe Phe Leu Ile
 1           5           10           15
Met Gly Asn Thr Gln Arg Cys Asp Asp Phe Pro Thr Glu Ser Pro Pro
           20           25           30
Ala Lys Thr Asn Val Ser Arg Ala Gly Leu Ser Pro Pro Cys Glu Ala
           35           40           45
Leu His Gly Val Glu Ser Arg Gly Ser Cys Ser His Gly Lys Leu Gln
           50           55           60
Ser Pro Pro Gly Arg Asp Trp Pro Gln Gly Asp Pro Gln Asp Arg Pro
           65           70           75           80
Lys Arg Arg Trp Gln Arg Pro Gly Pro Ala Gly Arg Gly Ala Pro Asp
           85           90           95
Pro Thr Pro Lys Gly Gln Gly Ala Ala Val Pro Pro Arg Ser Ala Ser
           100          105          110
Met Phe Leu Ile His Lys Gln Met Trp Ala Tyr Gly Phe Gly Asp *
           115          120          125          127

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<210> 1594
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1594
 Met Ile Trp Ala Leu Ser Ser Ser Leu Ile Pro Phe Leu Ile Ala Leu
 1 5 10 15
 Cys Phe Val His Ser Ala Asn Ser His Leu Gln Val Leu Val Ile Cys
 20 25 30
 Ser Ser Leu Phe Leu Glu Pro Pro Pro His Asn Phe Met *
 35 40 45

<210> 1595
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1595
 Met Trp Glu Glu Leu Leu Arg Gly Leu Thr Ala Pro Tyr Trp Leu Ser
 1 5 10 15
 Ser Trp Leu Cys Phe Ser Trp Arg Ala Ala Thr Val Ala Val Ala Val
 20 25 30
 Ala Val Ala Val Ala Ala Ala Ala Thr Ala Ala Ala Ala Ala Ala
 35 40 45
 Cys Val Lys Ser Val Glu Gly Leu Ala Ala Cys Glu Gly Arg Pro Arg
 50 55 60
 Pro Pro Gly Pro Pro Ala Tyr Leu Gln Glu Thr Gln Asp Cys His Ala
 65 70 75 80
 Leu Cys Val Gly Ser *
 85

<210> 1596
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1596
 Met Val Leu Ser Trp Leu Thr Leu Ile Glu Ala Leu Ala Asp Val Met
 1 5 10 15
 Thr Thr Asp Gly Asn Met Leu Gln Leu Phe Cys Val Glu Arg Thr Asn
 20 25 30
 Leu Leu Val Asn Gln Ile Arg Met Thr Leu Tyr Ala Gln Tyr Arg His
 35 40 45
 Val Arg Pro Phe Arg Thr Ile Met Lys Pro Ile Leu Thr Arg Glu Val
 50 55 60
 Gln Thr Lys Asp *
 65 68

<210> 1597
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1597
 Met Phe Leu Leu Phe Ser Arg Ile Ser Asn Leu Met Phe Val Asn His
 1 5 10 15
 Lys Leu Pro Met Leu Ile Thr Glu Asn Lys Gln Val Ser Lys Glu Glu
 20 25 30
 Asn Lys Ala Thr His Ser His Arg Ser Ser Phe Gln Ser Ser Thr Ile
 35 40 45
 Ser Ser Arg Leu Asn Leu Ile *
 50 55

<210> 1598
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1598
 Met His Glu Ser Pro Leu Ala Trp Ala Ser Val His Leu Ser Ser Leu
 1 5 10 15
 Pro Leu Leu Cys Thr Ala Cys Ser Ser Pro Leu Met Gly Asn Ser Val
 20 25 30
 Leu Cys Arg Ala Pro Ala Asp Met Gly Leu Ala Trp Met Leu Leu Leu
 35 40 45
 Ser Glu Pro Arg Arg Val Val Pro Gly Ile Ala Ala Gln Val Leu Thr
 50 55 60
 Ala Leu Arg Arg Arg Leu Leu Ser Gly Thr Leu Pro Ser Phe Pro Arg
 65 70 75 80
 Arg Lys Asn Pro Leu His Glu His Leu Leu Ala Phe Ile Val Arg Leu
 85 90 95 96
 *

<210> 1599
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1599
 Met Thr Val Ser Gly Thr Val Val Leu Val Ala Gly Thr Leu Cys Phe
 1 5 10 15
 Ala Trp Trp Ser Glu Gly Asp Ala Thr Ala Gln Pro Gly Gln Leu Ala
 20 25 30
 Pro Pro Thr Glu Tyr Pro Val Pro Glu Gly Pro Ser Pro Leu Leu Arg
 35 40 45
 Ser Val Ser Phe Val Cys Cys Gly Ala Gly Gly Leu Leu Leu Leu Ile
 50 55 60
 Gly Leu Leu Trp Ser Val Lys Ala Ser Ile Pro Gly Pro Pro Arg Trp

```

65          70          75          80
Asp Pro Tyr His Leu Ser Arg Asp Leu Tyr Tyr Leu Thr Val Glu Ser
          85          90          95
Ser Glu Lys Glu Ser Cys Arg Thr Pro Lys Val Val Asp Ile Pro Asp
          100          105          110          112

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<210> 1600
<211> 103
<212> PRT
<213> Homo sapiens

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<400> 1600
Met Gly Ala Trp Ala Trp Val Pro Thr Pro Ser Leu Cys Leu Cys His
 1          5          10          15
Ser Thr Cys Leu Glu Phe Leu Leu Phe Leu Tyr Ile Leu Phe Tyr Cys
          20          25          30
Ile Phe Glu Thr Val Ser Leu Ser Pro Arg Leu Glu Arg Ser Gly Ala
          35          40          45
Ile Leu Ala Arg Cys Asn Leu Cys Leu Arg Gly Ser Ser Asp Ser Arg
          50          55          60
Ala Leu Ala Ser Arg Val Ala Glu Thr Thr Gly Met His His His Ala
65          70          75          80
Trp Leu Ile Phe Ala Phe Leu Val Glu Thr Gly Phe His His Val Gly
          85          90          95
Gln Ala Gly Leu Asn Ser *
          100          102

```

```

<210> 1601
<211> 84
<212> PRT
<213> Homo sapiens

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```

<400> 1601
Met Val Ala Leu Leu Cys Arg Gln Ile Ile Ser Ala Ala Phe Ser Gly
 1          5          10          15
Glu Gly Thr Pro Leu Cys Ser Trp Ser Ser Gly Pro Ile Leu Ser Ser
          20          25          30
Val Cys Leu Leu Cys Pro Leu Ala Val Leu Cys Pro Ala Lys Pro Glu
          35          40          45
Pro Arg Ala Phe Thr Asp Leu Arg Gly Glu Glu Val Cys Ala Asp Trp
          50          55          60
Phe Met Gly Gly His Gly Arg Val Glu Arg Gly Thr Met Ser Pro His
65          70          75          80
Ser Gly Leu *
          83

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<210> 1602
<211> 91
<212> PRT

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<213> Homo sapiens

<400> 1602

```

Met Lys Thr Leu Pro Val Leu Val Leu Ser Leu Thr Leu Leu Thr Val
 1              5              10              15
Phe Ser Glu Thr Ser Pro Ile Leu Thr Glu Lys Gln Ala Lys Gln Leu
      20              25              30
Leu Arg Ser Arg Arg Gln Asp Arg Pro Ser Lys Pro Gly Phe Pro Asp
      35              40              45
Glu Pro Met Arg Glu Tyr Met His His Leu Leu Ala Leu Glu His Arg
      50              55              60
Ala Glu Glu Gln Phe Leu Glu His Trp Leu Asn Pro His Cys Lys Pro
      65              70              75              80
His Cys Asp Arg Asn Arg Ile His Pro Val *
              85              90

```

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1603

```

Met Lys Arg Asp Val Leu Ile Thr Glu Thr Phe Cys Ile Leu Phe Trp
 1              5              10              15
Leu Cys Ala Phe Ser Ser Met Asn Asp Tyr Val Phe Lys Pro His Val
      20              25              30
Leu Tyr Ile Asp Cys Pro Leu Lys Arg Leu Asp Ser Ser Val Cys Gln
      35              40              45
His Ile Gly Thr Glu Tyr Asn Tyr Thr Leu Ile Ile Ser Gln Val Phe
      50              55              60
Ile Leu Glu Val *
      65              68

```

<210> 1604

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1604

```

Met Leu Gln Pro Met Phe Phe Thr Leu Ser Thr His Leu Val Gly Leu
 1              5              10              15
Ser Gln Ile Ser Tyr Leu Ser Phe Pro Leu Ile Ser Leu His Pro Ala
      20              25              30
Gln Val Val Lys Arg Gln Ser Ser Leu Pro Arg Leu Met Gln Ser Ser
      35              40              45
Lys Glu Ser Lys Ala Val Leu Val Glu Ile Ile Leu Arg Ala Arg Lys
      50              55              60
Val Val Lys Tyr Ile Ser Lys Gly Phe Leu Arg Ala Val Cys Ala Glu
      65              70              75              80
Met Ile *
      82

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<210> 1605
 <211> 110
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(110)
 <223> Xaa = any amino acid or nothing

<400> 1605
 Met Ser Thr Ile Ile Phe Gln Trp Pro Phe Met Leu Val Ser Leu His
 1 5 10 15
 Arg Cys Arg Lys Leu Pro Arg Ala Leu Lys Asp Trp Gln Ala Phe Leu
 20 25 30
 Asp Leu Lys Lys Ile Ile Asp Asp Phe Ser Glu Cys Cys Pro Leu Leu
 35 40 45
 Glu Tyr Met Gly Ser Lys Ala Met Met Glu Arg His Xaa Glu Arg Ile
 50 55 60
 Thr Thr Leu Thr Gly His Ser Leu Asp Val Gly Asn Glu Ser Phe Lys
 65 70 75 80
 Leu Arg Asn Ile Met Glu Ala Pro Leu Leu Xaa Tyr Lys Glu Glu Ile
 85 90 95
 Glu Val Glu Tyr Asp Val Met Glu Asp Cys Lys Val Ser Trp
 100 105 110

<210> 1606
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1606
 Met Thr Ala Gly Thr Val Thr Met Leu Leu Trp His Ala Ser Asn Trp
 1 5 10 15
 Asp Val Gln Leu Pro Ser Gln Pro Leu Val Glu Leu Thr Pro Val Arg
 20 25 30
 Asp Leu Asp Thr Ser Gly Leu Thr Ala Phe Leu Ala Arg Asp Met Asn
 35 40 45
 Leu Leu Ser Gly Asn Val Asn Thr Met Asn Gly Glu Ser Ile Ile Ala
 50 55 60
 Ile Thr Met Lys Met Leu Ala *
 65 70 71

<210> 1607
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1607
 Met Phe Thr Arg Phe Ile Gly Leu Phe Leu Lys Phe Ile Leu Met Phe
 1 5 10 15

Phe Leu Leu Leu Ser Phe Ile Ser Tyr Phe Cys Leu Phe Pro Cys Ser
 20 25 30
 Asn Leu Pro Lys Val Ile Ala Ile Phe Asn Ile Val Leu Ile Leu Ser
 35 40 45
 Ile Val Phe Arg Glu Ile Thr Asp Thr Tyr *
 50 55 58

<210> 1608
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1608
 Met Leu Val Thr Asp Thr Glu Ala Phe Trp Gln Pro Gln Pro Trp Phe
 1 5 10 15
 Val Val Val Leu Thr Ala Thr Gly Ala Leu Leu Leu Leu Ala Leu Gly
 20 25 30
 Trp Leu Leu Gly Arg Leu Leu Gln Gly Leu Ala Gln Leu Leu Gln Ala
 35 40 45
 Pro Ser Lys Pro Ala Gln Ala Leu Leu Leu Asn Ser Ile Gln Gly Thr
 50 55 60
 Glu Gly Ser Ile Glu Gly Phe Leu Glu Ala Pro Lys Met Glu Met Ser
 65 70 75 80
 Gln Ala Pro Ser Ser Val Met Ser Leu Gln His Phe Asp Gly Arg Thr
 85 90 95
 Gln Asp Ser Arg Thr Gly Arg Asp Tyr Leu Val Asn Thr His Thr Gly
 100 105 110
 Ala Arg Arg Trp Leu *
 115 117

<210> 1609
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1609
 Met Val Ile Gly Ser Leu His Thr Phe Thr Leu Leu Ala Ala Ser Ser
 1 5 10 15
 Leu Val Asp Thr Pro Lys Gln Ile Gln Leu Leu Met Gln Asn Leu Met
 20 25 30
 Asn Asp Pro Arg Lys Glu Val Lys Ile Leu Ala Ile Gln Asp Leu Lys
 35 40 45
 Leu Leu
 50

<210> 1610
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1610
 Met Val Leu Ile Leu Ser Pro Gly Leu Ser Ile Leu Phe Thr Lys Met
 1 5 10 15
 Ser Glu Thr Phe Ser Ser Ser Leu Leu Lys Leu Ser Ser Ser Ile Cys
 20 25 30
 Ile Phe Pro Leu Cys Ile Asn Met Ile Ile Cys Tyr Gln Lys Lys Ser
 35 40 45
 Gln *
 49

<210> 1611
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1611
 Met Ser Phe Gln Ala Phe Val Phe Leu Met Ile Gly Trp Leu His Pro
 1 5 10 15
 Asp Pro Arg Leu Met Thr Gln Arg Ser Cys Gly Pro His Pro Glu Val
 20 25 30
 Asp Ser Ala Gln Glu Asp His Phe Ser His Pro Tyr Asp Ile Pro Asn
 35 40 45
 Gln Ser Ala Pro Pro Leu Pro *
 50 55

<210> 1612
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1612
 Met Leu Thr Leu Ala Leu Leu Val Leu Arg Ile Cys Val Cys Glu Ala
 1 5 10 15
 Ala Ser Thr Phe Val Cys Pro Cys Leu Pro Trp Leu Ser Leu Leu Phe
 20 25 30
 Leu His Leu Leu Pro Arg Leu Phe Gln Val Gln Ile Trp Phe Leu Leu
 35 40 45
 Phe Leu Pro Phe Leu Leu Leu Leu Pro Ser Val Pro Glu Ile Phe Pro
 50 55 60
 Ala Pro Gln Ala Trp Gly Leu Gly Cys Ser *
 65 70 74

<210> 1613
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 1613
 Met Phe Thr Cys Leu Phe Leu Phe Ser Ala Val Leu Arg Ala Leu Phe
 1 5 10 15

```

Arg Lys Ser Asp Pro Lys Arg Phe Gln Asn Ile Phe Thr Thr Ile Phe
      20      25      30
Thr Leu Phe Thr Leu Leu Thr Leu Asp Asp Trp Ser Leu Ile Tyr Met
      35      40      45
Asp Ser Arg Ala Gln Gly Ala Trp Tyr Ile Ile Pro Ile Leu Ile Ile
      50      55      60
Tyr Ile Ile Ile Gln Tyr Phe Ile Phe Leu Asn Leu Val Ile Thr Val
      65      70      75      80
Leu Val Asp Ser Phe Gln Thr Ala Leu Phe Lys Gly Leu Glu Lys Ala
      85      90      95
Lys Gln Glu Arg Ala Ala Arg Ile Gln Glu Lys Leu Leu Glu Asp Ser
      100      105      110
Leu Thr Glu Leu Arg Ala Ala Glu Pro Lys Glu Val Ala Ser Glu Gly
      115      120      125
Thr Met Leu Lys Arg Leu Ile Glu Lys Lys Phe Gly Thr Met Thr Glu
      130      135      140
Lys Gln Gln Glu Leu Leu Phe His Tyr Leu Gln Leu Val Ala Ser Val
      145      150      155      160
Glu Gln Glu Gln Gln Lys Phe Arg Ser Gln Ala Ala Val Ile Asp Glu
      165      170      175
Ile Val Asp Thr Thr Phe Glu Ala Gly Glu Glu Asp Phe Arg Asn *
      180      185      190      191

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<210> 1614
<211> 153
<212> PRT
<213> Homo sapiens

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<400> 1614
Met Asp Leu Val Gln Phe Phe Val Thr Phe Phe Ser Cys Phe Leu Ser
  1      5      10      15
Leu Leu Leu Val Ala Ala Val Val Trp Lys Ile Lys Gln Thr Cys Trp
      20      25      30
Ala Ser Arg Arg Arg Glu Gln Leu Leu Arg Glu Arg Gln Gln Met Ala
      35      40      45
Ser Arg Pro Phe Ala Ser Val Asp Val Ala Leu Glu Val Gly Ala Glu
      50      55      60
Gln Thr Glu Phe Leu Arg Gly Pro Leu Glu Gly Ala Pro Lys Pro Ile
      65      70      75      80
Ala Ile Glu Pro Cys Ala Gly Asn Arg Ala Ala Val Leu Thr Val Phe
      85      90      95
Leu Cys Leu Pro Arg Gly Ser Ser Gly Ala Pro Pro Pro Gly Gln Ser
      100      105      110
Gly Leu Ala Ile Ala Ser Ala Leu Ile Asp Ile Ser Gln Gln Lys Ala
      115      120      125
Ser Asp Ser Lys Asp Lys Thr Ser Gly Val Arg Asn Arg Lys His Leu
      130      135      140
Ser Thr Arg Gln Gly Thr Cys Val *
      145      150      152

```

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<210> 1615
<211> 135
<212> PRT
<213> Homo sapiens

```

<400> 1615

```

Met His Trp Leu Arg Ala Ser Ala Gly Ser Leu Leu Met Val Pro Leu
 1          5          10          15
Met Thr Asp Leu His Glu Leu Ala Leu Pro Pro Ala Ser Leu Arg Thr
          20          25          30
Val Val Lys Glu Asn Met Cys Val Leu Pro Phe Pro Val Lys Thr Ser
          35          40          45
Gly Arg Ser Leu Thr Gly Ser Ala Trp Ser Arg Phe His Leu Pro Cys
 50          55          60
His Leu Arg Pro Gly Asp Arg Leu Pro Cys His Cys Leu Gly Lys Phe
 65          70          75          80
Arg Lys Arg Val Ala Lys Trp Cys Ile Arg Lys Asn Met Ala Arg Ser
          85          90          95
Pro His Leu Leu Gly Gly Arg Pro Asn Ser Thr Ser Gly Pro Leu Cys
          100          105          110
Asp Phe Pro Ala Pro Ser Lys Gln Val Thr Pro Leu Leu Trp Val Ser
          115          120          125
Val Ser Leu Pro Ile Lys *
          130          134

```

<210> 1616

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1616

```

Met Leu His Gln Met Lys Phe Ile Gly His Leu Ile Phe Ile Val Val
 1          5          10          15
Leu Asp Pro Asp Leu Ser Asp Met Lys Asn Asn Glu Pro Tyr Asp Tyr
          20          25          30
Lys Phe Val Lys Trp Met Thr Lys His Lys Val Met Phe Ile Val Leu
          35          40          45
Cys Lys Ile Leu Leu Tyr Phe Ile Val Asn Phe *
          50          55          59

```

<210> 1617

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1617

```

Met Pro Glu His Leu Cys Phe Glu Ile Cys Asn Thr Leu Leu Asn Phe
 1          5          10          15
Phe Ser Phe Leu Leu Cys Val Thr Asp His Glu Thr Thr Phe Phe
          20          25          30
Asp Ser Gly Trp Lys Ala Ser Gly Ser Thr Val Thr Cys Lys Ala Gly
          35          40          45          48

```

*

<210> 1618
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1618
 Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro
 1 5 10 15
 Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser Leu Ser Ser Pro Pro
 20 25 30
 Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro Gln Gly Met Ala Ala
 35 40 45
 Leu Leu Ser Leu Ala Met Ala Thr Phe Thr Gln Glu Pro Gln Leu Cys
 50 55 60
 Leu Ser Cys Leu Ser Gln His Gly Ser Ile Leu Met Ser Ile Leu Lys
 65 70 75 80
 His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala *
 85 90 94

<210> 1619
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1619
 Met Ile Leu Met Leu Leu Leu Ile Val Asp Leu Val Gln Leu Ala
 1 5 10 15
 Gly Asn Ala Val Ile Ser Ser Gly Ser Trp Asp Ser Ala Cys Thr Gly
 20 25 30
 Thr Pro Ser Pro Ser Thr Pro Ser Thr Trp Pro Gly Pro Thr Ser Ser
 35 40 45
 Ser Ala Pro Arg Phe *
 50 53

<210> 1620
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1620
 Met Cys Cys Ser Phe Leu Leu Glu Gly Leu Ile Ser Leu Phe Ser Leu
 1 5 10 15
 Gln Leu Phe Ser Val Gln Leu Val Leu Phe Phe Leu Trp Ile Val
 20 25 30
 Ser Tyr Ser Lys Lys Gln Ile Lys Asp Thr Phe Ala Lys Thr Lys Asn
 35 40 45
 Thr Val Ala Arg Ile Leu Leu Ser Ile Pro Asp Leu Pro Ser Leu Thr
 50 55 60
 Leu Ile Thr Gln Ile Leu *
 65 70

<210> 1621
 <211> 90
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(90)
 <223> Xaa = any amino acid or nothing

<400> 1621
 Met Asp His Lys Ser Leu Trp Ala Gly Val Glu Val Leu Leu Leu Leu
 1 5 10 15
 Gln Gly Gly Ser Ala Tyr Lys Leu Val Cys Tyr Phe Thr Asn Trp Ser
 20 25 30
 Gln Asp Arg Gln Glu Pro Gly Lys Phe Thr Pro Glu Asn Ile Asp Pro
 35 40 45
 Phe Leu Cys Ser His Leu Ile Tyr Ser Phe Ala Ser Ile Glu Asn Asn
 50 55 60
 Lys Val Ile Ile Arg Thr Pro Xaa Phe Phe Pro Leu Pro Leu Gly His
 65 70 75 80
 Arg Leu Gln Thr Ile Asn Pro Arg Leu *
 85 89

<210> 1622
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1622
 Met Gln Cys Ala Ile Cys Ile Leu Leu Tyr Leu Leu Asn Lys Lys Thr
 1 5 10 15
 Val Trp Arg Cys Ser Arg Ile His His Asn Asn Thr Val Val Leu Thr
 20 25 30
 Arg Glu Ser Ser Pro Phe Leu Thr Thr Cys Thr Leu Ser Ser Val Leu
 35 40 45
 Leu Thr Lys Ala *
 50 52

<210> 1623
 <211> 978
 <212> PRT
 <213> Homo sapiens

<400> 1623
 Met Pro Ala Arg Arg Leu Leu Leu Leu Leu Thr Leu Leu Leu Pro Gly
 1 5 10 15
 Leu Gly Ile Phe Gly Ser Thr Ser Thr Val Thr Leu Pro Glu Thr Leu
 20 25 30
 Leu Phe Val Ser Thr Leu Asp Gly Ser Leu His Ala Val Ser Lys Arg
 35 40 45

Thr Gly Ser Ile Lys Trp Thr Leu Lys Glu Asp Pro Val Leu Gln Val
 50 55 60
 Pro Thr His Val Glu Glu Pro Ala Phe Leu Pro Asp Pro Asn Asp Gly
 65 70 75 80
 Ser Leu Tyr Thr Leu Gly Ser Lys Asn Asn Glu Gly Leu Thr Lys Leu
 85 90 95
 Pro Phe Thr Ile Pro Glu Leu Val Gln Ala Ser Pro Cys Arg Ser Ser
 100 105 110
 Asp Gly Ile Leu Tyr Met Gly Lys Lys Gln Asp Ile Trp Tyr Val Ile
 115 120 125
 Asp Leu Leu Thr Gly Glu Lys Gln Gln Thr Leu Ser Ser Ala Phe Ala
 130 135 140
 Asp Ser Leu Cys Pro Ser Thr Ser Leu Leu Tyr Leu Gly Arg Thr Glu
 145 150 155 160
 Tyr Thr Ile Thr Met Tyr Asp Thr Lys Thr Arg Glu Leu Arg Trp Asn
 165 170 175
 Ala Thr Tyr Phe Asp Tyr Ala Ala Ser Leu Pro Glu Asp Asp Val Asp
 180 185 190
 Tyr Lys Met Ser His Phe Val Ser Asn Gly Asp Gly Leu Val Val Thr
 195 200 205
 Val Asp Ser Glu Ser Gly Asp Val Leu Trp Ile Gln Asn Tyr Ala Ser
 210 215 220
 Pro Val Val Ala Phe Tyr Val Trp Gln Arg Glu Gly Leu Arg Lys Val
 225 230 235 240
 Met His Ile Asn Val Ala Val Glu Thr Leu Arg Tyr Leu Thr Phe Met
 245 250 255
 Ser Gly Glu Val Gly Arg Ile Thr Lys Trp Lys Tyr Pro Phe Pro Lys
 260 265 270
 Glu Thr Glu Ala Lys Ser Lys Leu Thr Pro Thr Leu Tyr Val Gly Lys
 275 280 285
 Tyr Ser Thr Ser Leu Tyr Ala Ser Pro Ser Met Val His Glu Gly Val
 290 295 300
 Ala Val Val Pro Arg Gly Ser Thr Leu Pro Leu Leu Glu Gly Pro Gln
 305 310 315 320
 Thr Asp Gly Val Thr Ile Gly Asp Lys Gly Glu Cys Val Ile Thr Pro
 325 330 335
 Ser Thr Asp Val Lys Phe Asp Pro Gly Leu Lys Ser Lys Asn Lys Leu
 340 345 350
 Asn Tyr Leu Arg Asn Tyr Trp Leu Leu Ile Gly His His Glu Thr Pro
 355 360 365
 Leu Ser Ala Ser Thr Lys Met Leu Glu Arg Phe Pro Asn Asn Leu Pro
 370 375 380
 Lys His Arg Glu Asn Val Ile Pro Ala Asp Ser Glu Lys Lys Ser Phe
 385 390 395 400
 Glu Glu Val Ile Asn Leu Val Asp Gln Thr Ser Glu Asn Ala Pro Thr
 405 410 415
 Thr Val Ser Arg Asp Val Glu Glu Lys Pro Ala His Ala Pro Ala Arg
 420 425 430
 Pro Glu Ala Pro Val Asp Ser Met Leu Lys Asp Met Ala Thr Ile Ile
 435 440 445
 Leu Ser Thr Phe Leu Leu Ile Gly Trp Val Ala Phe Ile Ile Thr Tyr
 450 455 460
 Pro Leu Ser Met His Gln Gln Gln Gln Leu Gln His Gln Gln Phe Gln
 465 470 475 480
 Lys Glu Leu Glu Lys Ile Gln Leu Leu Gln Gln Gln Gln Gln Gln Leu
 485 490 495
 Pro Phe His Pro Pro Gly Asp Thr Ala Gln Asp Gly Glu Leu Leu Asp
 500 505 510
 Thr Ser Gly Pro Tyr Ser Glu Ser Ser Gly Thr Ser Ser Pro Ser Thr

515	520	525
Ser Pro Arg Ala Ser Asn His	Ser Leu Cys Ser Gly Ser Ser Ala Ser	
530	535	540
Lys Ala Gly Ser Ser Pro Ser	Leu Glu Gln Asp Asp Gly Asp Glu Glu	
545	550	555
Thr Ser Val Val Ile Val Gly Lys	Ile Ser Phe Cys Pro Lys Asp Val	
565	570	575
Leu Gly His Gly Ala Glu Gly Thr	Ile Val Tyr Arg Gly Met Phe Asp	
580	585	590
Asn Arg Asp Val Ala Val Lys Arg	Ile Leu Pro Glu Cys Phe Ser Phe	
595	600	605
Ala Asp Arg Glu Val Gln Leu Leu	Arg Glu Ser Asp Glu His Pro Asn	
610	615	620
Val Ile Arg Tyr Phe Cys Thr Glu	Lys Asp Arg Gln Phe Gln Tyr Ile	
625	630	635
Ala Ile Glu Leu Cys Ala Ala Thr	Leu Gln Glu Tyr Val Glu Gln Lys	
645	650	655
Asp Phe Ala His Leu Gly Leu Glu	Pro Ile Thr Leu Leu Gln Gln Thr	
660	665	670
Thr Ser Gly Leu Ala His Leu His	Ser Leu Asn Ile Val His Arg Asp	
675	680	685
Leu Lys Pro His Asn Ile Leu Ile	Ser Met Pro Asn Ala His Gly Lys	
690	695	700
Ile Lys Ala Met Ile Ser Asp Phe	Gly Leu Trp Lys Lys Leu Ala Val	
705	710	715
Gly Arg His Ser Phe Ser Arg Arg	Ser Gly Val Pro Gly Thr Glu Gly	
725	730	735
Trp Ile Ala Pro Glu Met Leu Ser	Glu Asp Cys Lys Glu Asn Pro Thr	
740	745	750
Tyr Thr Val Asp Ile Phe Ser Ala	Gly Cys Val Phe Tyr Tyr Val Ile	
755	760	765
Ser Glu Gly Ser His Pro Phe Gly	Lys Ser Leu Gln Arg Gln Ala Asn	
770	775	780
Ile Leu Leu Gly Ala Cys Ser Leu	Asp Cys Leu His Pro Glu Lys His	
785	790	795
Glu Asp Val Ile Ala Arg Glu Leu	Ile Glu Lys Met Ile Ala Met Asp	
805	810	815
Pro Gln Lys Arg Pro Ser Ala Lys	His Val Leu Lys His Pro Phe Phe	
820	825	830
Trp Ser Leu Glu Lys Gln Leu Gln	Phe Phe Gln Asp Val Ser Asp Arg	
835	840	845
Ile Glu Lys Glu Ser Leu Asp Gly	Pro Ile Val Lys Gln Leu Glu Arg	
850	855	860
Gly Gly Arg Ala Val Val Lys Met	Asp Trp Arg Glu Asn Ile Thr Val	
865	870	875
Pro Leu Gln Thr Asp Leu Arg Lys	Phe Arg Thr Tyr Lys Gly Gly Ser	
885	890	895
Val Arg Asp Leu Leu Arg Ala Met	Arg Asn Lys Lys His His Tyr Arg	
900	905	910
Glu Leu Pro Ala Glu Val Arg Glu	Thr Leu Gly Thr Leu Pro Asp Asp	
915	920	925
Phe Val Cys Tyr Phe Thr Ser Arg	Phe Pro His Leu Leu Ala His Thr	
930	935	940
Tyr Arg Ala Met Glu Leu Cys Ser	His Glu Arg Leu Phe Gln Pro Tyr	
945	950	955
Tyr Phe His Glu Pro Pro Glu Pro	Gln Pro Pro Val Thr Pro Asp Ala	
965	970	975
Leu *		
977		

<210> 1624
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1624
 Met His Ser Cys Trp Thr Phe Gln Asp Leu Ser Leu Val Gln Leu Cys
 1 5 10 15
 Leu Pro Leu Ser Cys Pro Gln Gln Gly Pro Val Gly Pro Gly Gly Phe
 20 25 30
 Leu Leu Pro Val Ser Gln Val Gly Pro Pro Lys Pro Ala Gly His Trp
 35 40 45
 Gln Arg Lys Leu Leu Met Pro *
 50 55

<210> 1625
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1625
 Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val Met Ala Gly Val Ile
 1 5 10 15
 Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys Met Val Lys Gln Val
 20 25 30
 Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro Tyr Gly Cys His Cys
 35 40 45
 Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala Thr Asp Trp Cys Cys
 50 55 60
 Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys Thr Gln Gly Cys Gly
 65 70 75 80
 Ile Tyr Lys Asp Tyr Arg Tyr Asn Phe Ser Gln Gly Asn Ile His
 85 90 95
 Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln Leu Cys Ala Cys Asp
 100 105 110
 Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu Asp Thr Tyr Gln Lys
 115 120 125
 Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg Gly Gln Thr Pro Gly
 130 135 140
 Cys *
 145

<210> 1626
 <211> 385
 <212> PRT
 <213> Homo sapiens

<400> 1626
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly

1	5	10	15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln			
20	25	30	
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe			
35	40	45	
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu			
50	55	60	
Glu Trp Val Ser Gly Ile Gly Gly Ser Gly Ser Ser Thr Tyr Tyr Ala			
65	70	75	80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Gln Asn			
85	90	95	
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val			
100	105	110	
Tyr Tyr Cys Ala Lys Ser His Pro Ala Tyr Tyr Tyr Gly Ser Gly Ser			
115	120	125	
Tyr Ser Ser His Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln			
130	135	140	
Gly Thr Thr Val Thr Val Ser Ser Gly Asp Gly Ser Ser Gly Gly Ser			
145	150	155	160
Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr			
165	170	175	
Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser			
180	185	190	
Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly			
195	200	205	
Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly			
210	215	220	
Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu			
225	230	235	240
Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln			
245	250	255	
Gln Tyr Gly Ser Ser Pro Thr Thr Phe Gly Gln Gly Thr Lys Val Glu			
260	265	270	
Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser			
275	280	285	
Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn			
290	295	300	
Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala			
305	310	315	320
Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys			
325	330	335	
Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp			
340	345	350	
Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Ser Gly Ala			
355	360	365	
Leu Ser Phe Ala Arg Ser Gln Arg Ser Phe Gln Pro Gly Glu Ser Val			
370	375	380	384

*

<210> 1627

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1627

```

Met Ile Val His Cys Thr Ile Ile Pro Leu Ser Phe Cys Val His Arg
 1           5           10           15
Leu Arg Ala Pro Leu Asp Ala Tyr Phe Gln Val Ser Arg Thr Gln Pro
      20           25           30
Asp Leu Pro Ala Thr Thr Tyr Asp Ser Glu Thr Arg Asn Pro Val Ser
      35           40           45
Glu Glu Leu Gln Val Ser Ser Ser Ser Asp Ser Asp Ser Asp Ser Ser
      50           55           60
Ala Glu Tyr Gly Gly Val Val Asp Gln Ala Glu Glu Ser Gly Ala Val
      65           70           75           80
Ile Leu Glu Gly Gln Tyr Phe Thr Gln Val Trp Thr His Lys Ala Asn
      85           90           95
Ile His Glu Ala *
      100

```

<210> 1628
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

<400> 1628
Met Ile Phe Tyr Val Ile Leu Ser Ser Pro Ser Ser Arg Thr Phe Phe
 1           5           10           15
Lys Ile Thr Leu Ile Met Ser Leu Gly Leu Ile Ser Lys Leu Leu Ile
      20           25           30
Thr Ser Cys Thr Phe Asp Thr Val Thr Phe Met Met Leu Thr Asn Ile
      35           40           45
Thr Lys Met Lys Ile Ser Ser Gly Lys Ala Thr Gln Ser Gln Glu Phe
      50           55           60
Phe Ser Glu Leu Ile Leu Tyr
      65           70           71

```

<210> 1629
 <211> 112
 <212> PRT
 <213> Homo sapiens

```

<400> 1629
Met Ala His Tyr Lys Thr Glu Gln Asp Asp Trp Leu Ile Ile Tyr Leu
 1           5           10           15
Lys Tyr Leu Leu Phe Val Phe Asn Phe Phe Phe Trp Val Gly Gly Ala
      20           25           30
Ala Val Leu Ala Val Gly Ile Trp Thr Leu Val Glu Lys Ser Gly Tyr
      35           40           45
Leu Ser Val Leu Ala Ser Ser Thr Phe Ala Ala Ser Ala Tyr Ile Leu
      50           55           60
Ile Phe Ala Gly Val Leu Val Met Val Thr Gly Phe Leu Gly Phe Gly
      65           70           75           80
Ala Ile Leu Trp Glu Arg Lys Gly Cys Leu Ser Thr Tyr Phe Cys Leu
      85           90           95
Leu Leu Val Ile Phe Leu Asp Glu Leu Glu Ala Gly Val Leu Ala His
      100           105           110           112

```

<210> 1630
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1630
 Met Trp Pro Gln Leu Leu Lys Ser Phe Phe Leu Ile Pro Thr Gln Ile
 1 5 10 15
 His Phe Asn Leu Thr Asn Leu Pro Ser Trp Arg Arg Arg Glu Leu Arg
 20 25 30
 Arg Phe Val Trp Val Ser Met Pro Glu Leu Ile Gly Ala Ser *
 35 40 45 46

<210> 1631
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1631
 Met Tyr Met Trp Ser Gly Leu Leu Gly Ser Lys Trp Thr Leu Val Tyr
 1 5 10 15
 Ser His Phe Leu Asn Met Ala Pro Ala Ser Phe Ser His Tyr Gln Ala
 20 25 30
 Ser Leu Pro Leu Leu Glu His Asp Thr Leu Ser Ser Ser Arg Val His
 35 40 45
 Ser Tyr Gln Cys Pro Gly Phe Phe Cys Phe Phe Pro Ser Val Leu Glu
 50 55 60
 Phe Ser Gln Leu Gln Lys Thr Tyr Ser Leu Cys Leu Pro Phe *
 65 70 75 78

<210> 1632
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1632
 Met Phe Met Cys Arg Leu Leu Leu Trp Ala Thr Gly Ala Tyr Gly Phe
 1 5 10 15
 Leu Gly Asp Asp Val Glu Tyr Thr Ser Val Leu Pro His Gln Lys Gly
 20 25 30
 Lys Glu Ala Trp Val Phe Ile Cys Gln Leu Pro Phe Ile Ile Gly *
 35 40 45 47

<210> 1633
 <211> 58
 <212> PRT

<213> Homo sapiens

<400> 1633

```

Met Cys Leu Arg Arg Thr Leu Leu Trp His Leu His Ile Ala Pro Leu
 1           5           10           15
Val Asn Ile Leu Ser Asp Tyr Lys Pro Leu Gly Arg Trp Asn His Ala
           20           25           30
Pro Ala Leu Thr Ala Gly Ala Leu His Lys Thr Thr Ile Leu Leu Pro
           35           40           45
Gln Gly His Pro Lys Ala Ala Asn Pro *
      50           55           57

```

<210> 1634

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1634

```

Met Leu Val Phe Asn Leu Ser Leu Val Leu Ser His Ser Val Leu Glu
 1           5           10           15
Phe Val Met Phe Leu Tyr Ser Leu Asp Ser Ser His Val Cys Pro Leu
           20           25           30
Val Val Pro Val Thr Leu Asp Leu Ile Tyr Leu Val Tyr Leu Pro Cys
           35           40           45
Gln Ser Tyr Ile Leu Ile *
      50           54

```

<210> 1635

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1635

```

Met Ala Val Val Gln Ala Leu Thr Pro Leu Val Ser Ala Ala Ala Thr
 1           5           10           15
Ala Ser Cys Leu Thr Ser Cys Ser Trp Ser Leu Thr Phe Pro Glu His
           20           25           30
Ser Val Asn Tyr Gln Ser His Pro Ser Glu Thr Gln Pro Tyr Leu Leu
           35           40           45
Arg Ser Thr Lys Glu Lys His His His Trp Leu Thr Ala Lys Ala Thr
           50           55           60
Cys Pro Ala Ala Gly Ala Glu Gly Leu Pro Ser Arg Gly *
      65           70           75           77

```

<210> 1636

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1636

```

Met Phe Cys Ser Phe Pro Leu Leu Ile Leu Gln Val Tyr Pro Thr Trp
 1           5           10           15
Lys Asn Pro Asn Trp His Leu Thr Phe His Thr Ser Val Phe Ser Phe
           20           25           30
Pro Lys Gly Val Arg Ser Leu Ala Arg Gly Ile Pro Asp His Leu His
           35           40           45
Ser Ala *
      50

```

<210> 1637

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1637

```

Met Gln Gln Met Met Trp Ala Gly Leu Leu Cys Pro Gln Leu Glu Trp
 1           5           10           15
Leu Gln Gly Arg Ala Cys Arg Pro Cys Gly Leu Leu Ala Ser Asp Ala
           20           25           30
Ala Ala Leu Trp Phe Arg Gly Gly Ile Ser Ala Trp Glu Asp Ser Cys
           35           40           45
Ala Val Ser Asn Ile Arg His Glu Ala Tyr Asn Cys His Leu Ser Val
           50           55           60
Phe Leu Asn Arg Cys Ala Asn Glu Leu Thr Val Gln Phe Leu Ile Ile
           65           70           75           80
Leu Ala Phe Gln Ile Met Leu Ser Cys Ala Val Ile Ala Pro Ala Val
           85           90           95
Pro Val Phe Gln Arg Leu Thr Leu Lys Arg Ser Gly Arg Thr Ser Leu
           100          105          110
Gly Ser Thr Gly Arg Leu His Phe Cys Lys *
           115          120          122

```

<210> 1638

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1638

```

Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe
 1           5           10           15
Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr
           20           25           30
Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln
           35           40           45
Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val
           50           55           60
Ser Lys Tyr Phe *
           65           68

```

<210> 1639

<211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1639
 Met Tyr Val Ala Gly Tyr Leu Val Ala Asn Ser Ala Ile Cys Gln Leu
 1 5 10 15
 Thr Gln His Ser Leu Val Lys Leu Leu Leu Gln Gly Cys Phe Leu Ile
 20 25 30
 Gly Ser Leu His Leu Cys Ile Cys Val Pro Met Cys Val Cys Val Cys
 35 40 45
 Glu Tyr Arg Ile Leu His Asp Ser Lys Ile Ser Phe Lys Tyr Leu Arg
 50 55 60
 Phe Thr Ile Leu Lys Arg Glu Asn Lys Asn Lys Val Leu Gln Lys Leu
 65 70 75 80
 Lys Lys Asn Leu Lys Ser Val His Thr Leu Ser *
 85 90 91

<210> 1640
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1640
 Met Thr Ala Trp Phe Cys Ser Phe Leu Ser Ser His Trp Val Ile Lys
 1 5 10 15
 Leu Pro Arg Phe Leu Leu Leu Val Leu Pro Phe Phe Trp Gly Lys Lys
 20 25 30
 Phe Ser Leu Gly Leu Ile Ser Gln Phe Phe Ser Lys Ala Tyr Phe Tyr
 35 40 45
 Ser Ser Tyr His Asn Tyr Ile His Thr *
 50 55 57

<210> 1641
 <211> 459
 <212> PRT
 <213> Homo sapiens

<400> 1641
 Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1 5 10 15
 Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
 20 25 30
 Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
 35 40 45
 Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
 50 55 60
 Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
 65 70 75 80
 Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
 85 90 95
 Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln

```

      100      105      110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
      115      120      125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
      130      135      140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
      145      150      155      160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
      165      170      175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
      180      185      190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
      195      200      205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
      210      215      220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
      225      230      235      240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
      245      250      255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
      260      265      270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
      275      280      285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
      290      295      300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu
      305      310      315      320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
      325      330      335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
      340      345      350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
      355      360      365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
      370      375      380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
      385      390      395      400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
      405      410      415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
      420      425      430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
      435      440      445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala *
      450      455      458

```

<210> 1642

<211> 144

<212> PRT

<213> Homo sapiens

<400> 1642

```

Met Ala Arg Cys Thr Leu Thr Leu Leu Lys Thr Met Leu Thr Glu Leu
  1           5           10           15
Leu Arg Gly Gly Ser Phe Glu Phe Lys Asp Met Arg Val Pro Ser Ala
      20      25      30

```

```

Leu Val Thr Leu His Met Leu Leu Cys Ser Ile Pro Leu Ser Gly Arg
    35              40              45
Leu Asp Ser Asp Glu Gln Lys Ile Gln Asn Asp Ile Ile Asp Ile Leu
    50              55              60
Leu Thr Phe Thr Gln Gly Val Asn Glu Lys Leu Thr Ile Ser Glu Glu
    65              70              75              80
Thr Leu Ala Asn Asn Thr Trp Ser Leu Met Leu Lys Glu Val Leu Ser
    85              90              95
Ser Ile Leu Lys Val Pro Glu Gly Phe Phe Ser Gly Leu Ile Leu Leu
    100             105             110
Ser Glu Leu Leu Pro Leu Pro Leu Pro Met Gln Thr Thr Gln Val Ser
    115             120             125
Leu Pro Tyr Asn Met His Leu Ile Asn Asp Cys Ser Asn Thr Phe *
    130             135             140             143

```

```

<210> 1643
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1643
Met Gly Arg Arg Trp Leu Phe Leu Ile Ala Cys Leu Arg Ser Ala Ser
  1              5              10              15
Ile Leu Ala Trp Ala Thr Trp Arg Asn Pro Val Ser Thr Lys Asn Lys
    20              25              30
Lys Leu Ala Ser His Asp Gly Pro His Leu Ala Val Pro Ala Ile Arg
    35              40              45
Glu Ala Glu Ala Gly Arg Trp Leu Lys Pro Arg Arg Arg Leu Gln
    50              55              60
Arg Pro Lys Ile Ala Arg
    65              70

```

```

<210> 1644
<211> 82
<212> PRT
<213> Homo sapiens

```

```

<400> 1644
Met Gly Met Gly Thr Leu Ile Ile Met Asn Val Trp Val Leu Phe Ile
  1              5              10              15
Pro Thr Arg Leu Arg Ile Asp Gln Gln Pro Val His Ile Lys Pro Ser
    20              25              30
Met Arg Val Leu Asp Lys Trp Val Ser Ala Phe Val His Lys Gly Phe
    35              40              45
Thr Trp Gly Thr Ser Glu Arg Ile Asn Thr Gly Ser Ser Ser Asp Ile
    50              55              60
Thr Leu Gly Ile Leu Asn Lys Cys Gly Trp Ala Val Phe Cys Ala Ala
    65              70              75              80
Pro *
    81

```

<210> 1645
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 1645
 Met Ala Ala Leu Thr Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala
 1 5 10 15
 Leu Ala Gly Asp Thr Gln Pro Arg Phe Leu Trp Gln Gly Lys Tyr Lys
 20 25 30
 Cys His Phe Asn Gly Thr Glu Arg Val Gln Phe Leu Glu Arg Leu
 35 40 45
 Phe Tyr Asn Gln Glu Glu Phe Val Arg Phe Asp Ser Asp Val Gly Glu
 50 55 60
 Tyr Arg Ala Val Thr Glu Leu Gly Arg Pro Val Ala Glu Ser Trp Asn
 65 70 75 80
 Ser Gln Lys Asp Ile Leu Glu Asp Arg Arg Gly Gln Val Asp Thr Val
 85 90 95
 Cys Arg His Asn Tyr Gly Val Gly Glu Ser Phe Thr Val Gln Arg Arg
 100 105 110
 Val His Pro Glu Val Thr Val Tyr Pro Ala Lys Thr Gln Pro Leu Gln
 115 120 125
 His His Asn Leu Leu Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser
 130 135 140
 Ile Glu Val Arg Trp Phe Arg Asn Gly Gln Glu Glu Lys Ala Gly Val
 145 150 155 160
 Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp Thr Phe Gln Thr Leu
 165 170 175
 Val Met Leu Glu Thr Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln
 180 185 190
 Val Glu His Pro Ser Val Met Ser Pro Leu Thr Val Glu Trp Arg Ala
 195 200 205
 Arg Ser Glu Ser Ala Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe
 210 215 220
 Val Leu Gly Leu Leu Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg
 225 230 235 240
 Asn Gln Lys Gly His Ser Gly Leu Gln Pro Thr Gly Phe Leu Ser *
 245 250 255

<210> 1646
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1646
 Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu
 1 5 10 15
 Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu
 20 25 30
 Glu Asp Ala Val Lys Glu Thr Ser Ser Val Lys Gln Pro Trp Asp His
 35 40 45
 Thr Thr Thr Thr Thr Thr Asn Arg Pro Gly Thr Thr Arg Ala Pro Ala
 50 55 60
 Lys Pro Pro Gly Ser Gly Leu Asp Leu Ala Asp Ala Leu Asp Asp Gln
 65 70 75 80

```

Asp Asp Gly Arg Arg Lys Pro Gly Ile Gly Gly Arg Glu Arg Trp Asn
      85          90          95
His Val Thr Thr Thr Lys Arg Pro Val Thr Thr Arg Ala Pro Ala
      100        105        110
Asn Thr Leu Gly Asn Asp Phe Asp Leu Ala Asp Ala Leu Asp Asp Arg
      115        120        125
Asn Asp Arg Asp Asp Gly Arg Arg Lys Pro Ile Ala Gly Gly Gly Gly
      130        135        140
Phe Ser Asp Lys Asp Leu Glu Asp Ile Val Gly Gly Gly Glu Tyr Lys
      145        150        155        160
Pro Asp Lys Gly Lys Gly Asp Gly Arg Tyr Gly Ser Asn Asp Asp Pro
      165        170        175
Gly Ser Gly Met Val Ala Glu Pro Gly Thr Ile Ala Gly Val Ala Ser
      180        185        190
Ala Leu Ala Met Ala Leu Ile Gly Ala Val Ser Ser Tyr Ile Ser Tyr
      195        200        205
Gln Gln Lys Lys Phe Cys Phe Ser Ile Gln Gln Gly Leu Asn Ala Asp
      210        215        220
Tyr Val Lys Gly Glu Asn Leu Glu Ala Val Val Cys Glu Glu Pro Gln
      225        230        235        240
Val Lys Tyr Ser Thr Leu His Thr Gln Ser Ala Glu Pro Pro Pro Pro
      245        250        255
Pro Glu Pro Ala Arg Ile *
      260        262

```

<210> 1647

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1647

```

Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
  1          5          10          15
Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
      20          25          30
Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
      35          40          45
Val Pro Ala Gly Arg Ser Ser Glu Gln Leu Tyr Leu Gly Tyr Thr Glu
      50          55          60
Lys Tyr Gly Arg Arg Glu Arg Lys Ala *
      65          70          73

```

<210> 1648

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1648

```

Met Gly Leu Cys Gly Met Trp Val Leu Thr Ala Phe Leu Cys Glu Pro
  1          5          10          15
Met Gly Phe Arg His Arg Val Cys Pro His Arg Cys Val Arg Gly Ser
      20          25          30
Gly Arg Gly Ser Gly Cys Glu Cys Val Thr Met Trp Pro Cys Gly Ile

```

35 40 45
 Asn Ala Met Thr Gly Gly Phe Trp Val *
 50 55 57

<210> 1649
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1649
 Met Gly Val Leu Leu Val Ser Met Val Val Leu Phe Ile Phe Ala Ile
 1 5 10 15
 Leu Cys Ile Phe Ile Arg Asn Arg Ile Leu Glu Ile Val Tyr Ala Ser
 20 25 30
 Leu Gly Ala Leu Leu Phe Thr Cys Phe Leu Ala Val Asp Thr Gln Leu
 35 40 45
 Leu Leu Gly Asn Lys Gln Leu Ser Leu Ser Pro Glu Glu Tyr Val Phe
 50 55 60
 Ala Ala Leu Asn Leu Tyr Thr Asp Ile Ile Asn Ile Phe Leu Tyr Ile
 65 70 75 80
 Leu Thr Ile Ile Gly Arg Ala Lys Glu *
 85 89

<210> 1650
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1650
 Met Ala Leu Gly Val Pro Ile Ser Val Tyr Leu Leu Phe Asn Ala Met
 1 5 10 15
 Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile Thr
 20 25 30
 Ala Gln Gln Gly Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile
 35 40 45
 Glu Gly Pro Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His
 50 55 60
 Asn Ser Tyr Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu
 65 70 75 80
 Lys Ala Ile Cys Arg Cys Phe Thr Gly Tyr Thr Gly Glu Arg Cys Leu
 85 90 95
 Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
 100 105 110 112
 *

<210> 1651
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1651

```

Met Phe Ile Lys Phe Leu Arg Ile Leu Ile Ser Leu Gln Cys Ser Ser
 1           5           10           15
Phe Lys Phe Thr Val Thr Ala Lys Val Leu Phe Met Thr Tyr Lys Lys
          20           25           30
Arg Ala Gln Ser Asp Phe Phe Leu Val Phe Val Asp Arg Glu Arg Ser
          35           40           45
Pro *
49

```

<210> 1652

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1652

```

Met Ser Arg Ala Gly Met Leu Gly Val Val Cys Ala Leu Leu Val Trp
 1           5           10           15
Ala Tyr Leu Ala Val Gly Lys Leu Val Val Arg Met Thr Phe Thr Glu
          20           25           30
Leu Cys Thr His His Pro Trp Ser Leu Arg Cys Glu Ser Phe Cys Arg
          35           40           45
Ser Arg Val Thr Ala Cys Leu Pro Ala Pro Ala Pro Trp Leu Arg Pro
          50           55           60
Phe Leu Cys Pro Met Leu Phe Ser Asp Arg Asn Pro Val Glu Cys His
65           70           75           80
Leu Phe Gly Glu Ala Val Ser Asp Pro Val Cys Lys Gly Leu Leu Pro
          85           90           95
His Tyr Phe Trp His Pro Thr Phe Phe Pro Val Lys Ala Asn Cys Leu
          100          105          110
Val Ser Phe Cys Pro Thr Thr Val *
          115          120

```

<210> 1653

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1653

```

Met Trp Ser Leu Trp Ile Trp Val Asp Gln His Gln Ala Arg Leu Ile
 1           5           10           15
Pro Ser Pro Gln Val Leu Leu Leu Leu Arg Glu Thr Pro Ser Thr
          20           25           30
Ala Ala Ala Val Ala Gly Trp Leu Val Val Ala Ser Met Ala Leu Leu
          35           40           45
Gln Leu His Ala Val Gly Gly Val Ala Leu Thr Ser Ser His Pro Phe
          50           55           60
Met Trp Ala Thr Gly Glu Glu Leu Arg Lys Pro Pro Trp Gln Gly Ser
65           70           75           80
Ala Gly Ser Ala Ser Gly Val Glu Glu Leu Thr Gly Lys His Ser Cys
          85           90           95
Pro Gly Pro Glu Glu Pro Ala Thr Val Gln Lys Ala Pro Ala *

```

100

105

110

<210> 1654
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1654

```

Met Trp Ile Cys Arg Val Lys Gln Ala Trp Leu Pro Pro Leu Leu Ser
 1           5           10           15
Pro Leu Gly Pro Pro Thr Pro Trp Asp Pro Phe Tyr Ala Ala Pro Ser
           20           25           30
Pro Pro Val Trp Val Gly Ser Gly Tyr Trp Tyr Arg Gly Leu Leu Ser
           35           40           45
Pro Pro Asp Gly Gly Gln Gly Ser Phe Pro Pro His Leu Cys Pro Gln
           50           55           60
Cys Pro Val Gln Ala Gln Ala Gln Ile Gly Pro Tyr Phe Arg Glu Leu
           65           70           75           80
Gly Glu Pro Pro Ser Glu Thr Lys Trp Tyr Leu Asn Ser His Ser His
           85           90           95
His Arg Ala Ala Gly Thr Gln Arg Arg Leu Arg Cys Leu Gln His Leu
           100          105          110
Leu Gly Gly Gly Gly Pro Gly Ile Gly Ser Glu Ser Pro Asn Glu Gly
           115          120          125
Pro Gly Gln Val Thr His Ala Cys Asn Leu Ser Thr Leu Gly Gly Lys
           130          135          140
Asp Val Arg Ile Thr *
145           149

```

<210> 1655
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1655

```

Met Ser Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe Ile Ser
 1           5           10           15
Leu Ile Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu Met Arg
           20           25           30
Leu Glu Glu Tyr Lys Lys Glu Gln Ala Ile Asn Arg Ala Gly Ile Val
           35           40           45
Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp Pro Phe
           50           55           60
Gly Arg Lys *
65           67

```

<210> 1656
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1656

```

Met His Lys Tyr Leu Cys Val Phe Glu Tyr Leu Ser Asn Leu Ser Lys
 1          5          10          15
Cys Met Arg Leu Tyr Leu Ile Leu Leu Ala Ser Ile Cys Met Tyr Leu
          20          25          30
Cys Val Ala Arg Arg Val Phe Leu Phe Ala Ser Val Ser Thr Gln Gly
          35          40          45
Lys Ser Leu Met Tyr Ser Thr Gln Lys Val Val Lys *
 50          55          60

```

<210> 1657

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1657

```

Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe Ala Val Ser Gly
 1          5          10          15
Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val
          20          25          30
Asp Arg Leu Val Met Gly Cys Gly Lys Tyr Ser Trp Lys Val Ser Ser
          35          40          45
Ser Thr Thr Thr Ser Thr Thr Gly Leu Arg Trp Thr Ser Thr Ser Thr
          50          55          60
His Ser Cys Cys Met Leu Cys Ser Glu Gly Val Leu Val Ser Pro *
 65          70          75          79

```

<210> 1658

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1658

```

Met Ala Phe Leu Leu Tyr His Leu Val Tyr His Ile Pro Pro Met Ala
 1          5          10          15
Pro Val Ser Phe Val Phe Glu Thr Lys Ser Arg Ser Ala Ala Gln Ala
          20          25          30
Gly Val Gln Trp His Asp Pro Gly Ser Pro Gln Pro Leu Pro Pro Arg
          35          40          45
Phe Lys Arg Phe Ser Cys His Gly Leu Asn Ile Lys Phe Ala Phe Phe
          50          55          60
Ser His Leu Lys Glu Leu His Leu Asp Ser Gly His Cys Phe Ile Phe
          65          70          75          80
Ile Arg Leu Val Lys Gly Ala Val Cys Leu Ile His Val Gln Ile Arg
          85          90          95
Ile Pro Ser Ala Asp Glu Asp Ile Thr Ile Leu Phe Phe Ile Val Ser
          100          105          110
Lys His Phe Leu Glu Ser Val Phe Lys Met Leu Gln Trp Ser Gln Met
          115          120          125
Thr Leu Ala Thr Val Lys Thr Thr Phe Ile Gly Leu Asn Glu Phe Ile
          130          135          140
Cys Ser Pro Ser Thr Leu Pro Ser Gly Lys Lys Asn Gly Leu Ile *

```

145

150

155

159

<210> 1659

<211> 90

<212> PRT

<213> Homo sapiens

<400> 1659

```

Met Trp Arg Leu Pro His Ser Gln Phe Ile His Ile Val Ile Leu Pro
 1           5           10           15
Leu Lys Val Phe Leu Phe Leu Phe Cys Phe Leu Arg Trp Ser Phe Ser
           20           25           30
Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Pro Leu Gln
           35           40           45
Pro Pro Pro Pro Arg Leu Lys Arg Phe Phe Cys Leu Ser Leu Pro Ser
           50           55           60
Ser Trp Asp Tyr Arg His Ser Pro Pro His Pro Ala Asn Phe Tyr Thr
           65           70           75           80
Phe Gly Arg Asp Gly Val Ser Pro Cys *
           85           89

```

<210> 1660

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1660

```

Met Cys Ala His Leu Val Cys Val Lys Trp Cys Leu Val Ile Leu Ile
 1           5           10           15
Cys Ile Phe Gln Asn Thr Asn Glu Val Glu Gln Leu Ile Leu Cys Val
           20           25           30
Leu Leu Ile Pro Leu Ser Ser Ser Met Thr Asp Leu Phe Leu Ser Leu
           35           40           45
Cys Val Cys Val Phe Cys Tyr *
           50           55

```

<210> 1661

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1661

```

Met Leu Gly Met Ile Ser Met Leu Leu Asn Ala Leu Lys Leu Leu Val
 1           5           10           15
Tyr Leu Thr Glu Cys Cys Met Ala Leu Glu Glu Arg Val His Ser Val
           20           25           30
Leu Ile Gly Trp Ser Val Ser Phe Lys Arg Ile Gln Arg Gln Leu Asn
           35           40           45
Gln Val Gly Leu Ile Glu Phe Phe Lys Met Val Leu Cys Ser Asn Thr
           50           55           60

```

Asp Gly Thr Glu Gly His Tyr Pro Lys *
 65 70 73

<210> 1662
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
 100 105 110
 Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
 115 120 125
 Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
 130 135 140
 His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
 145 150 155 160
 His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
 165 170 175
 Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
 180 185 190
 Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
 195 200 205
 Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
 210 215 220
 Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
 225 230 235 240
 Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
 245 250 255
 Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
 260 265 270

<210> 1663
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1663
 Met Pro His Ile Gln Thr Leu Leu Arg Thr Leu Phe Ala Ser His Leu
 1 5 10 15
 Leu Val Ser Leu Trp Gln Ser Glu Pro Met Ala Lys Pro Arg Met Arg

20 25 30
 Lys Tyr Asn Thr Ser Ser Glu Tyr Leu Ser Glu Leu Asp Thr Glu Ala
 35 40 45
 Ser Arg Val Ser *
 50 52

<210> 1664
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1664
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
 100 105 110
 Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
 115 120 125
 Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
 130 135 140
 His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
 145 150 155 160
 His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
 165 170 175
 Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
 180 185 190
 Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
 195 200 205
 Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
 210 215 220
 Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
 225 230 235 240
 Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
 245 250 255
 Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
 260 265 270

<210> 1665
 <211> 284
 <212> PRT
 <213> Homo sapiens

<400> 1665

```

Met Asp Glu Lys Ser Asn Lys Leu Leu Leu Ala Leu Val Met Leu Phe
 1          5          10          15
Leu Phe Ala Val Ile Val Leu Gln Tyr Val Cys Pro Gly Thr Glu Cys
          20          25          30
Gln Leu Leu Arg Leu Gln Ala Phe Ser Ser Pro Val Pro Asp Pro Tyr
          35          40          45
Arg Ser Glu Asp Glu Ser Ser Ala Arg Phe Val Pro Arg Tyr Asn Phe
 50          55          60
Thr Arg Gly Asp Leu Leu Arg Lys Val Asp Phe Asp Ile Lys Gly Asp
 65          70          75          80
Asp Leu Ile Val Phe Leu His Ile Gln Lys Thr Gly Gly Thr Thr Phe
          85          90          95
Gly Arg His Leu Val Arg Asn Ile Gln Leu Glu Gln Pro Cys Glu Cys
          100          105          110
Arg Val Gly Gln Lys Lys Cys Thr Cys His Arg Pro Gly Lys Arg Glu
          115          120          125
Thr Trp Leu Phe Ser Arg Phe Ser Thr Gly Trp Ser Cys Gly Leu His
          130          135          140
Ala Asp Trp Thr Glu Leu Thr Ser Cys Val Pro Ser Val Gly Asp Gly
          145          150          155          160
Lys Arg Asp Ala Arg Leu Arg Pro Ser Arg Trp Arg Ile Phe His Ile
          165          170          175
Leu Tyr Ala Ala Cys Thr Asp Ile Arg Gly Ser Pro Asn Thr Asn Ala
          180          185          190
Gly Ala Asn Ser Pro Ser Phe Thr Lys Thr Arg Asn Thr Ser Lys Ser
          195          200          205
Trp Lys Asn Phe His Tyr Ile Thr Ile Leu Gln Asp Pro Gly Ala Arg
          210          215          220
Ser Leu Ser Glu Trp Arg Pro Val Leu Lys Arg Gly Thr Leu Glu Gly
          225          230          235          240
Leu Leu Ala Cys Trp Pro Trp Lys Ala Pro Pro Pro Leu Lys Lys Leu
          245          250          255
Ser Thr Trp Tyr Pro Gly Glu Glu Leu Val Trp Leu Ala Pro Leu Gln
          260          265          270
Lys Ile Ile Gly Leu Ala Leu Leu Ile Tyr Pro *
          275          280          283

```

<210> 1666

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1666

```

Met Thr Leu Val Leu Phe Leu Val Leu Ala Leu Met Ile Thr Ile Cys
 1          5          10          15
Ile Leu Ser Tyr His Ser His Leu Leu Ile Asn Ser Asn Leu Ile Pro
          20          25          30
Val Lys Tyr Arg Asn Phe Pro Ser Ile Leu Leu His Phe Leu His Leu
          35          40          45
Trp Leu Ser Phe Cys His Ile Ser His Met His Ile Cys His Asn Leu
          50          55          60
Leu Ile *
          65          66

```

<210> 1667
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1667
 Met Asn Thr His Trp Asn Ile Leu Pro Val Glu Arg Ser Cys Pro Leu
 1 5 10 15
 Trp Ile Ser Ser Glu Leu Ser Tyr Cys Ser Ile Lys Leu Leu Phe Ile
 20 25 30
 Leu Leu Thr Leu His Leu Pro Ala Tyr Leu Ile Leu Pro Gly His Lys
 35 40 45
 Ile Arg Thr Gln Asp Leu Pro Asn Glu Ala Asn Arg Ala Val Thr Gln
 50 55 60
 Thr Gly Leu Arg His Ala Leu Tyr Gln Ser Ile Ser Cys Trp *
 65 70 75 78

<210> 1668
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1668
 Met Trp Gly Leu Leu Ile Pro Cys Ile Leu Gly Cys Met Lys Leu Pro
 1 5 10 15
 His Asn Leu Leu Met Leu Phe Ser Leu Glu Thr Phe Leu Thr Leu Arg
 20 25 30
 Phe Ile Leu Asp Ser Phe Tyr Ser Tyr Val Phe Lys Pro Thr Asn Lys
 35 40 45
 Arg Phe Cys Asn Ile *
 50 53

<210> 1669
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1669
 Met Met Ala Gly Ile Arg Ala Leu Phe Met Tyr Leu Trp Leu Gln Leu
 1 5 10 15
 Asp Trp Val Ser Arg Gly Glu Ser Val Gly Leu His Leu Pro Thr Leu
 20 25 30
 Ser Val Gln Glu Gly Asp Asn Ser Ile Ile Asn Cys Ala Tyr Ser Asn
 35 40 45
 Ser Ala Ser Asp Tyr Phe Ile Trp Tyr Lys Gln Glu Ser Gly Lys Gly
 50 55 60
 Pro Gln Phe Ile Ile Asp Ile Arg Ser Asn Met Asp Lys Arg Gln Gly
 65 70 75 80
 Gln Arg Val Thr Val Leu Leu Asn Lys Thr Val Lys His Leu Ser Leu
 85 90 95
 Gln Ile Ala Ala Thr Gln Pro Gly Asp Ser Ala Val Tyr Phe Cys Ala
 100 105 110

Glu Ile Pro Glu Gln Arg *
 115 118

<210> 1670
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1670
 Met Cys Leu Leu Cys Cys Glu Cys Leu Phe His Leu Trp Lys Arg Ile
 1 5 10 15
 Asn Trp Trp Gln Gly Phe Cys Ser Phe Tyr Leu Leu Leu Trp Val Gly
 20 25 30
 Leu Leu Ser Phe Pro Pro Asp Pro Pro Trp Lys Ser Phe Thr Pro Ala
 35 40 45
 Ile Leu Phe Leu Ala Trp Gly Thr Gly Ser Ser Pro Gly Arg His Arg
 50 55 60
 Phe Ser Leu Pro Thr Asp Arg Arg Pro Ser Ala His Ser Pro Phe Leu
 65 70 75 80
 Ser Thr Leu Gln His Ser Ile Arg Thr Leu Phe His Ser Pro Ile Arg
 85 90 95
 Ser Ser Arg Phe Ala Phe Val Ser Ser Leu His Ser Tyr Thr Ser Ile
 100 105 110
 Pro Ser Leu Pro
 115 116

<210> 1671
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1671
 Met Ser His Cys Gly Leu Leu Phe Leu Val Val Thr Trp Leu Leu Ser
 1 5 10 15
 Phe Ile Phe Leu Val Cys Lys Met Arg Ile Thr Phe Leu Phe Cys Leu
 20 25 30
 Leu Thr Val Asp Met Lys Pro Asn Lys Val Leu Tyr Met Lys Cys Phe
 35 40 45
 Lys Cys Ile Ile Leu Leu Ser Cys Tyr Pro Leu Lys Phe Leu Val Ile
 50 55 60
 Arg Asn Phe Glu Ile *
 65 69

<210> 1672
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Met Arg Val Leu Cys Ala Phe Pro Glu Ala Met Pro Ser Ser Asn Ser

```

      1           5           10           15
Arg Pro Pro Ala Cys Leu Ala Pro Gly Ala Leu Tyr Leu Ala Leu Leu
      20           25           30
Leu His Leu Ser Leu Ser Ser Gln Ala Gly Asp Arg Arg Pro Leu Pro
      35           40           45
Val Asp Arg Ala Ala Gly Leu Lys Glu Lys Thr Leu Ile Leu Leu Asp
      50           55           60
Val Ser Thr Lys Asn Pro Val Arg Thr Val Asn Glu Asn Phe Leu Ser
      65           70           75           80
Leu Gln Leu Asp Pro Ser Ile Ile His Asp Gly Trp Leu Asp Phe Leu
      85           90           95
Ser Ser Lys Arg Leu Val Thr Leu Ala Arg Gly Leu Ser Pro Ala Phe
      100          105          110
Leu Arg Phe Gly Gly Lys Arg Thr Asp Phe Leu Gln Phe Gln Asn Leu
      115          120          125
Arg Asn Pro Ala Lys Ser Arg Gly Gly Pro Gly Pro Asp Tyr Tyr Leu
      130          135          140
Lys Asn Tyr Glu Asp Asp Ile Val Arg Ser Asp Val Ala Leu Asp Lys
      145          150          155          160
Gln Lys Gly Cys Lys Ile Ala Gln His Pro Asp Gly Met Leu Glu Pro
      165          170          175
Pro Arg Glu Lys Ala Ala Gln Met His Leu Val Leu Leu Lys Glu Gln
      180          185          190
Phe Ser Asn Thr Tyr Ser Asn Leu Ile Leu Thr Glu Pro Asn Asn Tyr
      195          200          205
Arg Thr Met His Gly Arg Ala Val Asn Gly Ser Gln Leu Gly Lys Asp
      210          215          220
Tyr Ile Gln Leu Lys Ser Leu Leu Gln Pro Ile Arg Ile Tyr Ser Arg
      225          230          235          240
Ala Ser Leu Tyr Gly Pro Asn Ile Val Arg Pro Arg Lys Asn Val Ile
      245          250          255
Ala Leu Leu Asp Gly Leu *
      260          262

```

<210> 1673

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1673

```

Met Lys Trp Lys Thr Gly Val Ala Ile Phe Val Val Val Val Tyr
      1           5           10           15
Leu Val Thr Gly Gly Leu Val Phe Arg Ala Leu Glu Gln Pro Phe Glu
      20           25           30
Ser Ser Gln Lys Asn Thr Ile Ala Leu Glu Lys Ala Glu Phe Leu Arg
      35           40           45
Asp His Val Cys Val Ser Pro Gln Glu Leu Glu Thr Leu Ile Gln His
      50           55           60
Ala Leu Asp Ala Asp Asn Ala Gly Val Ser Pro Ile Gly Asn Ser Ser
      65           70           75           80
Asn Asn Ser Ser His Trp Asp Leu Gly Ser Ala Phe Phe Phe Ala Gly
      85           90           95
Thr Val Ile Thr Thr Ile Gly Tyr Gly Asn Ile Ala Pro Ser Thr Glu
      100          105          110
Gly Gly Lys Ile Phe Cys Ile Leu Tyr Ala Ile Phe Gly Phe Pro Leu
      115          120          125

```


Phe Gly Phe Leu Leu Ala Gly Ile Glu Asp Gln Leu Gly Thr Ile Phe
 130 135 140
 Gly Lys Ser Ile Ala Arg Val Glu Lys Val Phe *
 145 150 155

<210> 1674
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1674
 Met Cys Cys Val Ile Cys Ser Lys Gln Tyr Val Leu Leu Ser Ile Leu
 1 5 10 15
 Leu Cys Leu Leu Ala Ser Gly Ser Val Asp Phe Phe Leu Leu Pro His
 20 25 30
 Ser Val Leu Ala Asp Asp Asp Gly Ile Lys Val Val Lys Val Thr Phe
 35 40 45
 Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile Met Val Ser Leu Thr
 50 55 60
 Val Ser Phe Pro Gly Leu Cys Thr Cys Gln Ala Gly Thr Gln Asp Thr
 65 70 75 80
 Tyr Thr *
 82

<210> 1675
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1675
 Met Val His Cys Leu Ile Cys Met Trp Thr Cys Trp Pro Thr Gly Ala
 1 5 10 15
 Ile Leu His Arg Val Cys Arg Thr His Trp Pro Arg Gly Val Ser His
 20 25 30
 Thr His Val Trp Met His Trp Pro Thr Cys Val Val Ser Arg Leu Phe
 35 40 45
 Val Asp Val Leu Gly *
 50 53

<210> 1676
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1676
 Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu Gly Ile
 1 5 10 15
 Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp Ser Lys
 20 25 30
 Ser Ala Val Gln Asn Lys Val Val Val Ile Thr Asp Ala Ile Ser Gly

```

      35      40      45
Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala Arg Leu
   50      55      60
Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr Asp Ala
   65      70      75      80
Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys Leu Val
      85      90      95
Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro His Val Ala Lys Glu
   100      105      110
Ala Leu Asp Cys Tyr Gly *
   115      118

```

<210> 1677
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

<400> 1677
Met Arg Tyr Lys Cys Val Leu Ser Lys Ile Leu Trp Phe Cys Pro Trp
  1      5      10      15
Lys Tyr Val Trp Lys Asn Ser Phe Phe Asn Leu Glu Gly Met Phe Met
      20      25      30
Phe Ile Glu Val Thr Cys Arg His Tyr Ser Thr Cys Gly Ile Phe Lys
   35      40      45      48
*
```

<210> 1678
 <211> 127
 <212> PRT
 <213> Homo sapiens

```

<400> 1678
Met Gln Thr Lys Gly Gly Gln Thr Trp Ala Arg Arg Ala Leu Leu Leu
  1      5      10      15
Gly Ile Leu Trp Ala Thr Ala His Leu Pro Leu Ser Gly Thr Ser Leu
      20      25      30
Pro Gln Arg Leu Pro Arg Ala Thr Gly Asn Ser Thr Gln Cys Val Ile
   35      40      45
Ser Pro Ser Ser Glu Phe Pro Glu Gly Phe Phe Thr Arg Gln Glu Arg
   50      55      60
Arg Asp Gly Gly Ile Ile Ile Tyr Phe Leu Ile Ile Val Tyr Met Phe
   65      70      75      80
Met Ala Ile Ser Ile Val Cys Asp Glu Tyr Phe Leu Pro Ser Leu Glu
      85      90      95
Ile Ile Ser Glu Tyr Ile Gly Asn Lys Lys Glu Met Gln Val Leu Ile
   100      105      110
Pro Gly Arg Ile Val Ser Lys Leu Lys Lys Leu Gly Phe Lys *
   115      120      125 126

```

<210> 1679

<211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1679
 Met Ile Phe Phe Ile Lys Ala Pro Leu Tyr Leu Leu Gln Ser Met Met
 1 5 10 15
 Asp Cys Leu Tyr Ala Arg Arg Ile Pro Cys Ile Thr Asp Cys Ala Met
 20 25 30
 Ala Glu Ile Glu Lys Leu Gly Gln Lys Tyr Pro Val Ala Leu Arg Ile
 35 40 45
 Ala
 49

<210> 1680
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1680
 Met Val Tyr Glu Val Phe Ile Asn Lys Ala Asn Ile Leu Leu Leu Leu
 1 5 10 15
 Phe Leu Arg Gln Ser Leu Ala Val Leu Pro Arg Leu Glu Cys Ser Gly
 20 25 30
 Ala Ile Ser Ala Arg Cys Asn Leu His Leu Arg Ile Pro Pro Asp Phe
 35 40 45
 His Arg Ser Thr Met Gly Gly Gly Gly
 50 55 58

<210> 1681
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1681
 Met Leu Ser Gly Trp Val Gln Cys Pro Leu Leu Gln Arg Val His Phe
 1 5 10 15
 Tyr Ala Phe Ser Val Gly Pro Phe His Arg Lys Ile Trp Gly Asp Val
 20 25 30
 Ser Phe Pro Leu Thr Phe Tyr Phe Lys Asn Leu Gln Thr Gln Lys Ser
 35 40 45 48
 *

<210> 1682
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1682

```

Met Thr Gly Leu Phe Leu His His Asn Pro Gly Ile Leu Leu Ala Pro
 1          5          10          15
Ser Val Leu Asp Leu Leu Phe Pro Gly Ser His Ile Phe Ile Phe Ser
          20          25          30
Leu Phe Leu Ser Leu Cys Pro Cys Phe Gly Asp Thr Ile Leu Val Ala
          35          40          45
Pro Ser Asp Lys Val Tyr Lys Asp Thr Phe Ile Ile Lys Ile Tyr Pro
          50          55          60
Tyr Cys Ile Phe Glu Asn Phe Phe Thr Phe Leu Phe Thr *
65          70          75          77

```

<210> 1683

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1683

```

Met Ser Leu Gly Ser Ile Asn His Phe Leu Phe Phe Ile Gln Leu Leu
 1          5          10          15
Val Leu Lys Asn Ser Tyr Cys Met Leu Leu Lys Met Lys Gln Asn Lys
          20          25          30
Lys Leu Lys Lys Ile Met Cys Leu Leu Phe Leu Met Leu Ser Ser Tyr
          35          40          45
His Leu Ile *
50 51

```

<210> 1684

<211> 165

<212> PRT

<213> Homo sapiens

<400> 1684

```

Met Pro Ala Pro Pro Leu Pro Gly Gly Trp Asn Thr Trp Gly Pro Ser
 1          5          10          15
Leu Ser Leu Pro Leu Leu Leu Leu Gly Ala Val Ala Met Ala Leu Gly
          20          25          30
Val Arg Pro Pro Gly Gln Val Gly Leu Ser Pro Ile Ala Thr Ala Ser
          35          40          45
Thr Val Gly Val Pro Arg Cys Leu Gln Thr Ala Phe Arg Gly Asp Ala
          50          55          60
Gly Trp His Ser Cys Ala Gln Gln Gly Ala Cys Val Ala Leu His Pro
65          70          75          80
Ser Glu Arg Arg Leu Gly Ile Ser Asp Glu Ala His Ser Arg Ser Arg
          85          90          95
Trp Gly Gly Glu Asp Ser Pro Ser Pro Leu Thr Gly Pro Pro Leu Ser
          100          105          110
Pro Ser Pro Pro Asp Cys Leu Ser Leu Pro Arg Leu Thr Pro Leu Arg
          115          120          125
Leu Pro Pro Pro Pro Phe Pro Phe Leu Gly Pro Ile Pro Ser Leu Pro
          130          135          140
Pro Pro Pro Ser Pro Pro Gln Pro Pro Ala Thr Ala Pro Pro Pro
145          150          155          160

```

Ser Leu Arg Phe *
164

<210> 1685
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1685
Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu Phe
1 5 10 15
Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala
20 25 30
Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp
35 40 45
Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu
50 55 60
Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys Ala Gln Arg
65 70 75 80
Ala Gln His His Ala Glu Pro Glu Cys Asp Ala Gly Pro Gly Leu Arg
85 90 95
Gly Pro Arg Leu Gly Ala Ala Leu Gln Ala Pro Ala Arg Glu Arg His
100 105 110
Leu Gln Gln Arg Leu Arg His Leu His His Leu Gln Arg Pro Pro His
115 120 125
Gln Gly Arg Gly Arg Leu Arg Ala Ser Gly Pro Pro Ser Arg Leu Glu
130 135 140
Ser Ser Ala Asp Pro Ala Pro Ala *
145 150 152

<210> 1686
<211> 141
<212> PRT
<213> Homo sapiens

<400> 1686
Met Arg Arg Thr Ala Phe Ile Leu Gly Ser Gly Leu Leu Ser Phe Val
1 5 10 15
Ala Phe Trp Asn Ser Val Thr Trp His Leu Gln Arg Phe Trp Gly Ala
20 25 30
Ser Gly Tyr Phe Trp Gln Ala Gln Trp Glu Arg Leu Leu Thr Thr Phe
35 40 45
Glu Gly Lys Glu Trp Ile Leu Phe Phe Ile Gly Ala Ile Gln Val Pro
50 55 60
Cys Leu Phe Phe Trp Ser Phe Asn Gly Leu Leu Val Val Asp Thr
65 70 75 80
Thr Gly Lys Pro Asn Phe Ile Ser Arg Tyr Arg Ile Gln Val Gly Lys
85 90 95
Asn Glu Pro Val Asp Pro Val Lys Leu Arg Gln Ser Ile Arg Thr Val
100 105 110
Leu Phe Asn Gln Cys Met Ile Ser Phe Pro Met Gly Gly Leu Pro Leu
115 120 125
Ser Leu Pro Gln Met Val Glu Arg Pro Leu Thr Pro *

130

135

140

<210> 1687

<211> 61

<212> PRT

<213> Homo sapiens

<400> 1687

```

Met Leu Thr Glu Leu Leu Leu Cys Val Leu Val Leu Cys Val Phe
 1           5           10           15
Met Ser Arg Gly Ser Cys Leu Phe Ala Thr Ile Arg Glu Phe Trp Pro
          20          25          30
Pro Trp Val Gly Cys Gly Arg Gly Glu Asn Pro Ser Val Gly Thr Val
          35          40          45
Asp Pro Ser Cys Arg Leu Cys Ala Pro Gly His Val *
          50          55          60

```

<210> 1688

<211> 68

<212> PRT

<213> Homo sapiens

<400> 1688

```

Met Val Ala Ala Thr Pro Pro Gly Ile Ala Arg Trp Ala Leu Val Ile
 1           5           10           15
Ser Phe Pro Pro Val Thr Pro Thr Ala Pro His Met Cys Ala Ala Gln
          20          25          30
Pro Trp Gly Arg His Gly Ser Ala Glu Gly Thr Thr Gln Leu Pro Ala
          35          40          45
Pro Arg Ser Ser Pro Ser Cys Gln Ser Trp Asp Lys Leu Leu Leu Leu
          50          55          60
Leu Leu Glu *
65          67

```

<210> 1689

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1689

```

Met Ala Ala Thr Met Val Ser Ile Ala Ser Phe Arg Leu Phe Leu Met
 1           5           10           15
Ser Cys Thr Leu Val Ala Phe Ser Pro Ser Leu Leu Leu Ala Ala
          20          25          30
Cys Gly Ser Ser Ser Pro Pro Ser Pro Leu Asn Pro Leu Thr Cys Arg
          35          40          45
Ile Leu Ile Cys Phe Thr Met Val Leu Leu Pro Asp Ser Pro Ala Pro
          50          55          60
Ser Ser Ser Arg Arg Cys Val Ala Arg *
65          70          73

```

<210> 1690
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1690
 Met His Met Cys Ala Phe Leu His Val Trp Thr Cys Ala Cys Met His
 1 5 10 15
 Leu Cys Val Cys Val Cys Ala Glu Thr Gly Lys Gly Val Lys Val Leu
 20 25 30
 Val Arg Glu Pro Gly Ser Phe Leu Phe Pro Asn Leu Ser Cys Ser Lys
 35 40 45
 Glu Gly Trp Gly Trp Gly Gln Pro Leu Leu Lys Val Ile Gly Glu Glu
 50 55 60
 Arg Phe Ser Asp Ser Glu Val Thr Ala Ser Val Ala Gln Ala Val Ser
 65 70 75 80
 Leu Val Thr Val Ile Leu Gln Phe Ser Asp Pro His Val Ser Phe Arg
 85 90 95
 Gly Lys Arg Lys Lys Gly Thr Leu Trp Trp Val Leu Gly Gly Lys Arg
 100 105 110
 Lys *
 113

<210> 1691
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1691
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ser
 65 69

<210> 1692
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1692
 Met Leu Gly Pro Thr Val Phe Asn Ile Lys Phe Val Phe Leu Ile Thr
 1 5 10 15
 Ala Leu Gly Ala Leu Pro Ser Ser Leu Pro His Ala His Ser Ala Ala

```

      20      25      30
Trp Thr Leu Leu Pro Gly Pro Pro Ala Gln Gln His Ser Thr Arg Leu
      35      40      45
Trp Thr Phe Ser Asn Met Ala Gly Val Glu Leu Cys Pro Gly Pro Gln
      50      55      60
Pro Ala Gly Pro Ala Ala Pro Val Gly Arg Thr Pro Pro Val Leu Ser
      65      70      75      80
Ala Phe Thr Thr Thr Ser Ser Phe Gly Ser Gly Cys Gly Val Thr Ser
      85      90      95
Ser Arg Glu Leu Pro Arg Arg
      100      103

```

<210> 1693
 <211> 48
 <212> PRT
 <213> Homo sapiens

```

      <400> 1693
Met Gly Arg Phe Leu Asp Glu Gln Trp Val Tyr Phe Ile Ile Leu Leu
      1      5      10      15
Leu Leu Phe Phe Phe Arg Asp Ser Leu Ala Leu Ser Pro Arg Leu Glu
      20      25      30
Cys Ser Gly Ala Ile Ser Val His Ser Lys Leu Arg Leu Pro Gly Ser
      35      40      45      48

```

<210> 1694
 <211> 92
 <212> PRT
 <213> Homo sapiens

```

      <400> 1694
Met Ile Phe Ala Cys Glu Cys Val Leu Arg Leu Leu Leu Ile Leu Asn
      1      5      10      15
Val Ser Phe Leu Gly Ala Val Ser Glu Glu Thr Thr Asn Ala Leu Glu
      20      25      30
Thr Trp Gly Ala Leu Arg Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe
      35      40      45
Leu Leu Arg Glu His Ile Asp Glu Leu Ile Cys Asp Lys Thr Leu Asp
      50      55      60
Ser Lys Lys Ile Ala His Phe Arg Ala Glu Lys Glu Thr Phe Ser Glu
      65      70      75      80
Lys Asp Thr Tyr Cys Tyr Leu Lys Met Glu Leu *
      85      90      91

```

<210> 1695
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1695

```

Met Ala Val Gln Gln Gln Phe Ile Ile Val Val Leu Arg Leu Val Phe
 1           5           10           15
Pro Val Ala Gly Thr Thr Arg Ala Pro Leu His Trp Val Gly Ala Ile
           20           25           30
Pro Gly Trp Glu Trp Pro Pro Gly Asp Asp Ala Tyr Pro Ser Leu Leu
           35           40           45
Ala Pro Ser Gln His Pro Tyr Ser Gly Glu Ala Leu Cys Leu Leu Leu
           50           55           60
Leu Pro Ser Ile Val Leu Leu Glu Ser Cys Arg Lys Val Met Glu Arg
65           70           75           80
Gly Leu *
82

```

<210> 1696

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1696

```

Met Leu Trp Leu Phe Gln Ser Leu Leu Phe Val Phe Cys Phe Gly Pro
 1           5           10           15
Gly Asn Val Val Ser Gln Ser Ser Leu Thr Pro Leu Met Val Asn Gly
           20           25           30
Ile Leu Gly Glu Ser Val Thr Leu Pro Leu Glu Phe Pro Ala Gly Glu
           35           40           45
Lys Val Asn Phe Ile Thr Trp Leu Phe Asn Glu Thr Ser Leu Ala Phe
           50           55           60
Ile Val Pro His Glu Thr Lys Ser Pro Glu Ile His Val Thr Asn Pro
65           70           75           80
Lys Gln Gly Lys Arg Leu Asn Phe Thr Gln Ser Tyr Ser Leu Gln Leu
           85           90           95
Ser Asn Leu Lys Met Glu Asp Thr Gly Ser Tyr Arg Ala Gln Ile Ser
           100          105          110
Thr Lys Thr Ser Ala Lys Leu Ser Ser Tyr Thr Leu Arg Ile Leu Thr
           115          120          125
Leu Tyr Pro Ile Val Gly Asn Gly Ile Trp Gly Asn Lys Asn Phe Leu
           130          135          140
Thr Thr Leu Ala Arg Gly Asn Val Lys Leu Asp Gly Leu His Glu
145          150          155          159

```

<210> 1697

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1697

```

Met Glu Pro Arg Leu Phe Cys Trp Thr Thr Leu Phe Leu Leu Ala Gly
 1           5           10           15
Trp Cys Leu Pro Gly Leu Pro Cys Pro Ser Arg Cys Leu Cys Phe Lys
           20           25           30
Ser Thr Val Arg Cys Met His Leu Met Leu Asp His Ile Pro Gln Val

```

```

      35      40      45
Pro Gln Gln Thr Thr Val Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu
  50      55      60
Ile Pro Gly Ser Ala Phe Lys Lys Leu Lys Asn Leu Asn Thr Leu Tyr
  65      70      75      80
Leu Tyr Lys Asn Glu Ile His Ala Leu Asp Lys Gln Thr Phe Lys Gly
      85      90      95
Leu Ile Ser Leu Glu His Leu Tyr Ile
      100      105

```

<210> 1698
 <211> 195
 <212> PRT
 <213> Homo sapiens

```

      <400> 1698
Met Pro Ser Trp Ile Gly Ala Val Ile Leu Pro Leu Leu Gly Leu Leu
  1      5      10      15
Leu Ser Leu Pro Ala Gly Ala Asp Val Lys Ala Arg Ser Cys Gly Glu
      20      25      30
Val Arg Gln Ala Tyr Gly Ala Lys Gly Phe Ser Leu Ala Asp Ile Pro
      35      40      45
Tyr Gln Glu Ile Ala Gly Glu His Leu Arg Ile Cys Pro Gln Glu Tyr
      50      55      60
Thr Cys Cys Thr Thr Glu Met Glu Asp Lys Leu Ser Gln Gln Ser Lys
      65      70      75      80
Leu Glu Phe Glu Asn Leu Val Glu Glu Thr Ser His Phe Val Arg Thr
      85      90      95
Thr Phe Val Ser Arg His Lys Lys Phe Asp Glu Phe Phe Arg Glu Leu
      100      105      110
Leu Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Arg Thr Tyr
      115      120      125
Gly Met Leu Tyr Met Gln Asn Ser Glu Val Phe Gln Asp Leu Phe Thr
      130      135      140
Glu Leu Lys Arg Tyr Tyr Thr Gly Gly Asn Val Asn Leu Glu Glu Met
      145      150      155      160
Leu Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Gln Leu Ile
      165      170      175
Asn Pro Gln Tyr Pro Phe Ser Glu Gly Phe Leu Gly Met Cys Glu Gln
      180      185      190
Ile Pro *
      194

```

<210> 1699
 <211> 97
 <212> PRT
 <213> Homo sapiens

```

      <400> 1699
Met Asp Ser Pro Trp Ala Gly Leu Leu Trp Leu Leu Pro Thr Leu Trp
  1      5      10      15
Ser Ser Phe Pro Ala Pro Ala Cys Trp Pro Ser Ser Ser Ser Ser Ser
      20      25      30

```

```

Pro Val Cys Ala Ala Asn Gly Ala Met Ser Ala Ser Arg Asn Leu Arg
      35              40              45
Thr Leu Lys Gly Arg Thr Ala Pro Gly Ser Thr Leu Pro Leu Arg Arg
      50              55              60
Arg Pro Pro Pro His Ser Arg Cys Leu Met Ser Thr Phe Ser Arg Trp
      65              70              75              80
Leu Arg Ser Pro Cys Gln Cys Leu Pro Arg Ser Leu His Thr Gln Thr
      85              90              95 96

```

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```

<210> 1700
<211> 129
<212> PRT
<213> Homo sapiens

```

```

<400> 1700
Met Gly Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly
 1              5              10              15
Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Glu Ser Glu Ala
      20              25              30
Pro Gly Gln Trp Val Asn Ile Ser Cys Thr Gly Ser Gly Ser Asn Leu
      35              40              45
Gly Ala Gly Phe Asp Val Gln Trp Tyr Gln Leu Ile Pro Gly Thr Ala
      50              55              60
Pro Lys Leu Leu Ile Phe Asn Asn Asn Arg Gln Pro Ser Gly Val Pro
      65              70              75              80
Asp Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile
      85              90              95
Asn Asp Leu Gln Pro Glu Asp Glu Ser Glu Tyr Tyr Cys Leu Ala Met
      100              105              110
Thr Ala Ala Ser Leu Val Ser Ser Glu Leu Gly Pro Lys Ser Pro Ala
      115              120              125              128

```

*

```

<210> 1701
<211> 219
<212> PRT
<213> Homo sapiens

```

```

<400> 1701
Met Arg Thr His Thr Arg Gly Ala Pro Ser Val Phe Phe Ile Tyr Leu
 1              5              10              15
Leu Cys Phe Val Ser Ala Tyr Ile Thr Asp Glu Asn Pro Glu Val Met
      20              25              30
Ile Pro Phe Thr Asn Ala Asn Tyr Asp Ser His Pro Met Leu Tyr Phe
      35              40              45
Ser Arg Ala Glu Val Ala Glu Leu Gln Leu Arg Ala Ala Ser Ser His
      50              55              60
Glu His Ile Ala Ala Arg Leu Thr Glu Ala Val His Thr Met Leu Ser
      65              70              75              80
Ser Pro Leu Glu Tyr Leu Pro Pro Trp Asp Pro Lys Asp Tyr Ser Ala

```

```

      85              90              95
Arg Trp Asn Glu Ile Phe Gly Asn Asn Leu Gly Ala Leu Ala Met Phe
      100              105              110
Cys Val Leu Tyr Pro Glu Asn Ile Glu Ala Arg Asp Met Ala Lys Asp
      115              120              125
Tyr Met Glu Arg Met Ala Ala Gln Pro Ser Trp Leu Val Lys Asp Ala
      130              135              140
Pro Trp Asp Glu Val Pro Leu Ala His Ser Leu Val Gly Phe Ala Thr
      145              150              155              160
Ala Tyr Asp Phe Leu Tyr Asn His Leu Ser Lys Thr Gln Gln Glu Lys
      165              170              175
Phe Leu Glu Val Ile Ala Asn Ala Ser Gly Tyr Met Phe Val Thr Leu
      180              185              190
Ile Leu Gly Ala Asp Gly Asp Ser Asn Thr Cys Thr Ile Ile Ser Pro
      195              200              205
Pro Thr Val Trp Leu Cys Ser Arg Glu Ala *
      210              215              218

```

<210> 1702

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1702

```

Met Glu Gln Leu Leu Gly Ile Lys Leu Gly Cys Leu Phe Ala Leu Leu
  1              5              10              15
Ala Leu Thr Leu Gly Cys Gly Leu Thr Pro Ile Cys Phe Lys Trp Phe
      20              25              30
Gln Ile Asp Ala Ala Arg Gly His His Arg Leu Val Leu Arg Leu Leu
      35              40              45
Gly Cys Ile Ser Ala Gly Val Phe Leu Gly Ala Gly Phe Met His Met
      50              55              60
Thr Ala Glu Ala Leu Glu Glu Ile Glu Ser Gln Ile Gln Lys Phe Met
      65              70              75              80
Val Gln Ile Ser Lys *
      85

```

<210> 1703

<211> 229

<212> PRT

<213> Homo sapiens

<400> 1703

```

Met Leu Ser Met Leu Arg Thr Met Thr Arg Leu Cys Phe Leu Leu Phe
  1              5              10              15
Phe Ser Val Ala Thr Ser Gly Cys Ser Ala Ala Ala Ser Ser Leu
      20              25              30
Glu Met Leu Ser Arg Glu Phe Glu Thr Cys Ala Phe Ser Phe Ser Ser
      35              40              45
Leu Pro Arg Ser Cys Lys Glu Ile Lys Glu Arg Cys His Ser Ala Gly
      50              55              60
Asp Gly Leu Tyr Phe Leu Arg Thr Lys Asn Gly Val Val Tyr Gln Thr
      65              70              75              80

```

Phe Cys Asp Met Thr Ser Gly Gly Gly Gly Trp Thr Leu Val Ala Ser
 85 90 95
 Val His Glu Asn Asp Met His Gly Lys Cys Thr Val Gly Asp Arg Trp
 100 105 110
 Ser Ser Gln Gln Gly Asn Lys Ala Asp Tyr Pro Glu Gly Asp Gly Asn
 115 120 125
 Trp Ala Asn Tyr Asn Thr Phe Gly Ser Ala Glu Ala Ala Thr Ser Asp
 130 135 140
 Asp Tyr Lys Asn Pro Gly Tyr Tyr Asp Ile Gln Ala Lys Asp Leu Gly
 145 150 155 160
 Ile Trp His Val Pro Asn Lys Ser Pro Met Gln His Trp Arg Asn Ser
 165 170 175
 Ala Leu Leu Arg Tyr Arg Thr Asn Thr Gly Phe Leu Gln Arg Leu Gly
 180 185 190
 His Asn Leu Phe Gly Ile Tyr Gln Lys Tyr Pro Val Lys Tyr Arg Ser
 195 200 205
 Gly Lys Cys Trp Asn Asp Asn Gly Pro Ala Ile Pro Trp Val Tyr Asp
 210 215 220
 Phe Gly Glu Ala *
 225 228

<210> 1704

<211> 202

<212> PRT

<213> Homo sapiens

<400> 1704

Met Val Phe Pro Val Met Tyr Asn Leu Ile Ile Leu Val Cys Arg Ala
 1 5 10 15
 Cys Phe Pro Asp Leu Gln His Gly Tyr Leu Val Ala Trp Leu Val Leu
 20 25 30
 Asp Tyr Thr Ser Asp Leu Leu Tyr Leu Leu Asp Met Val Val Arg Phe
 35 40 45
 His Thr Gly Phe Leu Glu Gln Gly Ile Leu Val Val Asp Lys Gly Arg
 50 55 60
 Ile Ser Ser Arg Tyr Val Arg Thr Trp Ser Phe Phe Leu Asp Leu Ala
 65 70 75 80
 Ser Leu Met Pro Thr Asp Val Val Tyr Val Arg Leu Gly Pro His Thr
 85 90 95
 Pro Thr Leu Arg Leu Asn Arg Phe Leu Arg Ala Pro Arg Leu Phe Glu
 100 105 110
 Ala Phe Asp Arg Thr Glu Thr Arg Thr Ala Tyr Pro Asn Ala Phe Cys
 115 120 125
 Ile Gly Lys Leu Met Leu Tyr Ile Phe Gly Arg Ile His Trp Asn Asn
 130 135 140
 Cys Leu Tyr Phe Ser Leu Ser Arg Tyr Leu Gly Phe Gly Arg Glu Pro
 145 150 155 160
 Met Gly Val Pro Arg Thr Pro Ala Pro Thr Trp Val Leu Thr Ala Arg
 165 170 175
 Gly Gly Pro Val Thr Ser Tyr Lys Leu Phe Asn Phe Phe His Pro Leu
 180 185 190
 Asp Thr Trp Ile Ile Gln Gly Gly Glu *
 195 200 201

<210> 1705
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1705
 Met Gly Leu Leu Gly Val Leu Trp Asn Thr Thr Leu His Met Cys Arg
 1 5 10 15
 Met Arg Leu Gln Asp Thr Gly Gln Lys Ile Arg Thr Gly Ser Cys Glu
 20 25 30
 Leu His Gly Ser Gln Ser Ser His Ser Thr Gly Asn Leu Arg Val Leu
 35 40 45
 Pro Ser His Asn Gly Glu Thr Leu His *
 50 55 57

<210> 1706
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1706
 Met Gly Asp Tyr Arg Asn Val Arg Leu Leu Gly Ser Phe Ser Phe Ile
 1 5 10 15
 Ser Val Thr Ile Ser Arg Val Ile Phe Leu Leu Ser Leu Leu Gln Pro
 20 25 30
 Ser Gly Val Gly Ile Leu Phe Ala Asp Ser Gly Gly Thr Gly Tyr Thr
 35 40 45
 His His Cys Leu Trp Val *
 50 54

<210> 1707
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1707
 Met Leu Glu Cys Ala Phe Ile Val Leu Trp Leu Gln Leu Gly Trp Leu
 1 5 10 15
 Ser Gly Glu Asp Gln Val Thr Gln Ser Pro Glu Ala Leu Arg Leu Gln
 20 25 30
 Glu Gly Glu Ser Ser Ser Leu Asn Cys Ser Tyr Thr Val Ser Gly Leu
 35 40 45
 Arg Gly Leu Phe Trp Tyr Arg Gln Asp Pro Gly Lys Gly Pro Glu Phe
 50 55 60
 Leu Phe Thr Leu Tyr Ser Ala Gly Glu Glu Lys Glu Lys Glu Arg Leu
 65 70 75 80
 Lys Ala Thr Leu Thr Lys Lys Glu Ser Phe Leu His Ile Thr Ala Pro
 85 90 95
 Lys Pro Glu Asp Ser Ala Thr Tyr Leu Cys Ala Val Gln Ala Gln Phe
 100 105 110
 His Ser Gly Gly Gly Ala Asp Gly Leu Thr Phe Gly Lys Gly Thr Arg
 115 120 125

Leu Lys Val Leu Ala Leu Tyr Pro Glu Pro *
 130 135 138

<210> 1708
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1708
 Met Gly Pro Arg Phe Val Ser Thr Leu Pro Phe Ser Pro Ser Ala Ala
 1 5 10 15
 Trp Cys Ala Cys Glu Ala Gly Gly Gly Leu Arg Arg Glu Val Ala His
 20 25 30
 Ala Gln Arg Ala Ala Ser Thr Ala Pro Thr Ala His Met Gln Asn Ser
 35 40 45
 Thr Leu Ile Gly Leu Asn Leu Ser Arg Gly *
 50 55 58

<210> 1709
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1709
 Met Arg Leu Pro Trp Glu Leu Leu Val Leu Gln Ser Phe Ile Leu Cys
 1 5 10 15
 Leu Ala Asp Asp Ser Thr Leu His Gly Pro Ile Phe Ile Gln Glu Pro
 20 25 30
 Ser Pro Val Met Phe Pro Leu Asp Ser Glu Glu Lys Lys Ala Lys Leu
 35 40 45
 Asn Cys Glu Asp Lys Gly Asp Pro Lys Pro His Ile Arg Trp Lys Leu
 50 55 60
 Asn Gly Ala Asp Ala Asp Thr Gly Met Glu Phe Leu Leu Gln Arg Cys
 65 70 75 80
 *

<210> 1710
 <211> 399
 <212> PRT
 <213> Homo sapiens

<400> 1710
 Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
 1 5 10 15
 Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
 20 25 30
 Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
 35 40 45
 Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg

50		55		60	
Ile Asn Leu Thr Trp	His Lys Asn Asp Ser Ala Arg Thr Val Pro Gly				
65	70	75	80		
Glu Glu Glu Thr Arg Met Trp Ala Gln Asp Gly Ala Leu Trp Leu Leu					
	85	90	95		
Pro Ala Leu Gln Glu Asp Ser Gly Thr Tyr Val Cys Thr Thr Arg Asn					
	100	105	110		
Ala Ser Tyr Cys Asp Lys Met Ser Ile Glu Leu Arg Val Phe Glu Asn					
	115	120	125		
Thr Asp Ala Phe Leu Pro Phe Ile Ser Tyr Pro Gln Ile Leu Thr Leu					
	130	135	140		
Ser Thr Ser Gly Val Leu Val Cys Pro Asp Leu Ser Glu Phe Thr Arg					
145	150	155	160		
Asp Lys Thr Asp Val Lys Ile Gln Trp Tyr Lys Asp Ser Leu Leu Leu					
	165	170	175		
Asp Lys Asp Asn Glu Lys Phe Leu Ser Val Arg Gly Thr Thr His Leu					
	180	185	190		
Leu Val His Asp Val Ala Leu Glu Asp Ala Gly Tyr Tyr Arg Cys Val					
	195	200	205		
Leu Thr Phe Ala His Glu Gly Gln Gln Tyr Asn Ile Thr Arg Ser Ile					
	210	215	220		
Glu Leu Arg Ile Lys Lys Lys Lys Glu Glu Thr Ile Pro Val Ile Ile					
225	230	235	240		
Ser Pro Leu Lys Thr Ile Ser Ala Ser Leu Gly Ser Arg Leu Thr Ile					
	245	250	255		
Pro Cys Lys Val Phe Leu Gly Thr Gly Thr Pro Leu Thr Thr Met Leu					
	260	265	270		
Trp Trp Thr Ala Asn Asp Thr His Ile Glu Ser Ala Tyr Pro Gly Gly					
	275	280	285		
Arg Val Thr Glu Gly Pro Arg Gln Glu Tyr Ser Glu Asn Asn Glu Asn					
	290	295	300		
Tyr Ile Glu Val Pro Leu Ile Phe Asp Pro Val Thr Arg Glu Asp Leu					
305	310	315	320		
His Met Asp Phe Lys Cys Val Val His Asn Thr Leu Ser Phe Gln Thr					
	325	330	335		
Leu Arg Thr Thr Val Lys Glu Ala Ser Ser Thr Phe Ser Trp Gly Ile					
	340	345	350		
Val Leu Ala Pro Leu Ser Leu Ala Phe Leu Val Leu Gly Gly Ile Trp					
	355	360	365		
Met His Arg Arg Cys Lys His Arg Thr Gly Lys Ala Asp Gly Leu Thr					
	370	375	380		
Val Leu Trp Pro His His Gln Asp Phe Gln Ser Tyr Pro Lys *					
385	390	395	398		

<210> 1711

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1711

Met Ala Met Gly Val Pro Arg Val Ile Leu Leu Cys Leu Phe Gly Ala		
1	5	10
Ala Leu Cys Leu Thr Gly Ser Gln Ala Leu Gln Cys Tyr Ser Phe Glu		
	20	30
His Thr Tyr Phe Gly Pro Phe Asp Leu Arg Ala Met Lys Leu Pro Ser		
	35	45


```

Ile Ser Cys Pro His Glu Cys Phe Glu Ala Ile Leu Ser Leu Asp Thr
  50          55          60
Gly Tyr Arg Ala Pro Val Thr Leu Val Arg Lys Gly Cys Trp Thr Gly
  65          70          75          80
Pro Pro Ala Gly Gln Thr Gln Ser Asn Ala Asp Ala Leu Pro Pro Asp
          85          90          95
Tyr Ser Val Val Arg Gly Cys Thr Thr Asp Lys Cys Asn Ala His Leu
          100          105          110
Met Thr His Asp Ala Leu Pro Asn Leu Ser Gln Ala Pro Asp Pro Pro
          115          120          125
Thr Leu Ser Gly Leu Glu Cys Tyr Ala Cys Ile Gly Val His Gln Asp
          130          135          140
Asp Cys Ala Ile Gly Arg Ser Arg Arg Val Gln Cys His Gln Asp Gln
          145          150          155          160
Thr Ala Cys Phe Gln Gly Asn Gly Arg Met Thr Val Gly Asn Phe Ser
          165          170          175
Val Pro Val Tyr Ile Arg Thr Cys His Arg Ala Leu Leu His His Leu
          180          185          190
Met Gly Thr Thr Ser Pro Trp Thr Ala Ile Gly Pro Pro Arg Gly Ser
          195          200          205
Cys Cys Glu Gly Tyr Leu Cys Asn Arg Lys Ser Met Thr Gln Pro Phe
          210          215          220
Thr Ser Ala Ser Ala Thr Thr Pro Pro Arg Ala Leu Gln Val Leu Ala
          225          230          235          240
Leu Leu Leu Pro Val Leu Leu Leu Val Gly Leu Ser Ala *
          245          250          253

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<210> 1712
 <211> 124
 <212> PRT
 <213> Homo sapiens

```

<400> 1712
Met Thr Trp Leu Leu Val Ala Tyr Ala Asp Phe Val Val Thr Phe Val
  1          5          10          15
Met Leu Leu Pro Ser Lys Asp Phe Trp Tyr Ser Val Val Asn Gly Val
          20          25          30
Ile Phe Asn Cys Leu Ala Val Leu Ala Leu Ser Ser His Leu Arg Thr
          35          40          45
Met Leu Thr Asp Pro Glu Lys Ser Ser Asp Cys Arg Pro Ser Ala Cys
          50          55          60
Thr Val Lys Thr Gly Leu Asp Pro Thr Leu Val Gly Ile Cys Gly Glu
          65          70          75          80
Gly Thr Glu Ser Val Gln Ser Leu Leu Leu Gly Ala Val Pro Lys Gly
          85          90          95
Asn Ala Thr Lys Glu Tyr Met Asp Glu Leu Ala Ala Glu Ala Arg Gly
          100          105          110
Ser His Leu Gln Val Pro Gln Val Leu Leu Tyr *
          115          120          123

```

<210> 1713
 <211> 214
 <212> PRT
 <213> Homo sapiens

<400> 1713

Met	Leu	His	Leu	Val	Phe	Ile	Leu	Pro	Ser	Leu	Met	Leu	Leu	Ile	Pro
1				5					10					15	
His	Ile	Leu	Leu	Glu	Asn	Phe	Ala	Ala	Ala	Ile	Pro	Gly	His	Arg	Cys
		20					25						30		
Trp	Val	His	Met	Leu	Asp	Asn	Asn	Thr	Gly	Ser	Gly	Asn	Glu	Thr	Gly
	35					40						45			
Ile	Leu	Ser	Glu	Asp	Ala	Leu	Leu	Arg	Ile	Ser	Ile	Pro	Leu	Asp	Ser
	50					55					60				
Asn	Leu	Arg	Pro	Glu	Lys	Cys	Arg	Arg	Phe	Val	His	Pro	Gln	Trp	Gln
65					70					75				80	
Leu	Leu	His	Leu	Asn	Gly	Thr	Ile	His	Ser	Thr	Ser	Glu	Ala	Asp	Thr
				85					90					95	
Glu	Pro	Cys	Val	Asp	Gly	Trp	Val	Tyr	Asp	Gln	Ser	Tyr	Phe	Pro	Ser
		100					105						110		
Thr	Ile	Val	Thr	Lys	Trp	Asp	Leu	Val	Cys	Asp	Tyr	Gln	Ser	Leu	Lys
	115					120						125			
Ser	Val	Val	Gln	Phe	Leu	Leu	Leu	Thr	Gly	Met	Leu	Val	Gly	Gly	Ile
	130				135						140				
Ile	Gly	Gly	His	Val	Ser	Asp	Arg	Trp	Leu	Val	Glu	Ser	Ala	Arg	Trp
145				150					155					160	
Leu	Ile	Ile	Thr	Asn	Lys	Leu	Asp	Glu	Gly	Leu	Lys	Ala	Leu	Arg	Lys
			165					170						175	
Val	Ala	Arg	Thr	Asn	Gly	Ile	Lys	Asn	Ala	Glu	Arg	Asn	Pro	Glu	His
		180						185					190		
Arg	Gly	Cys	Lys	Ile	His	His	Ala	Gly	Gly	Ala	Gly	Cys	Ser	Thr	Asp
	195					200						205			
Gln	Asn	Tyr	Cys	Val	*										
	210			213											

<210> 1714

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1714

Met	Ala	Ala	Ser	Trp	Ser	Leu	Leu	Val	Thr	Leu	Arg	Pro	Leu	Ala	Gln
1				5					10					15	
Ser	Pro	Leu	Arg	Gly	Arg	Cys	Val	Gly	Cys	Gly	Ala	Trp	Ala	Ala	Ala
		20						25					30		
Leu	Ala	Pro	Leu	Ala	Thr	Ala	Pro	Gly	Lys	Pro	Phe	Trp	Lys	Ala	Tyr
	35					40						45			
Thr	Val	Gln	Thr	Ser	Glu	Ser	Met	Thr	Pro	Thr	Ala	Thr	Ser	Glu	Thr
	50					55					60				
Tyr	Leu	Lys	Ala	Leu	Ala	Val	Cys	His	Gly	Pro	Leu	Asp	His	Tyr	Asp
65				70					75					80	
Phe	Leu	Ile	Lys	Ala	His	Glu	Leu	Lys	Asp	Asp	Glu	His	Gln	Arg	Arg
			85					90					95		
Val	Ile	Gln	Cys	Leu	Gln	Lys	Leu	His	Glu	Asp	Leu	Lys	Gly	Tyr	Asn
		100						105					110		
Ile	Glu	Ala	Glu	Gly	Leu	Phe	Phe	Lys	Ala	Phe	Phe	Lys	Glu	Gln	Thr
	115					120						125			
Ser	Lys	Gly	Pro	Val	Cys	Leu	Trp	Arg	Cys	Trp	Tyr	Arg	Lys	Asn	Asn
	130					135					140				

Gly Asp Gly His Val Leu Cys Leu Cys Gly Asn Glu Glu Glu Lys Thr
 145 150 155 160
 Gly Ser Phe Ser Trp Phe His Ala Arg Cys Ala Gln Lys Asn Thr Ser
 165 170 175
 Pro *
 177

<210> 1715
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1715
 Met Arg Val Thr Ala Pro Arg Thr Val Leu Leu Leu Trp Gly Ala
 1 5 10 15
 Val Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Lys Tyr Phe
 20 25 30
 Tyr Thr Ala Met Ser Arg Ala Gly Arg Gly Glu Pro Arg Phe Ile Ala
 35 40 45
 Glu Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Lys Thr Asp Pro Gly Arg His Gly *
 65 70 75

<210> 1716
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1716
 Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala Met
 1 5 10 15
 Ile Ala Ser Phe Gly Leu Phe Val Glu Tyr Glu Thr Asp His Thr Val
 20 25 30
 Leu Glu His Phe Asn Ile Thr Lys Pro Ser Asp Met Gly Ile Phe Phe
 35 40 45
 Glu Leu Tyr Pro Leu Phe Gln Asp Val His Gly Met Ile Phe Val Gly
 50 55 60
 Phe Asp Phe Pro Pro Asp Leu Pro Glu Glu Leu Trp Val Ser Gln Arg
 65 70 75 80
 Gly Tyr *
 82

<210> 1717
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1717
 Met Ala Leu Phe Phe Leu Ala Leu Asn Phe Trp Lys Val Gly Met Ala

```

      1           5           10           15
Cys Tyr Val Arg Thr Ser Ser Trp Asn Ser Leu Leu Phe Phe Ser Gln
      20           25           30
Pro Tyr Phe Leu Gly Ser Cys Phe Glu Gln Tyr Leu Ser Asn Val Cys
      35           40           45
Leu Pro Asp Val Val Pro Asp Ala *
      50           55 56

```

<210> 1718
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

      <400> 1718
Met Tyr Leu Gly Leu Phe Leu Asp Phe Tyr Ser Val Ser Phe Cys Gly
      1           5           10           15
Cys Leu His Met Leu Gln Pro Gln Cys Phe Asn Tyr Phe Asn Ser Lys
      20           25           30
Asp Gln Ser Arg Phe His Cys Leu Lys His Cys Ser Asp His Leu Ile
      35           40           45
Phe Leu Leu Ser Glu Leu Arg Ser Asn Met Phe Ser Ser Phe Leu Ile
      50           55           60
Leu Ser Ile Phe Tyr Asp Tyr Cys Ile Asn Leu *
      65           70           75

```

<210> 1719
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

      <400> 1719
Met Lys Ile Phe Phe His Ile Phe Phe His Lys Cys Leu Phe Thr Tyr
      1           5           10           15
Arg Leu Phe Ile Thr Leu Ala Leu Ile Leu Trp Tyr Ser Asp Ile Glu
      20           25           30
Glu Ser Thr Phe Pro Pro Leu Met Arg Tyr Cys Pro Asn Thr Val Leu
      35           40           45
His Lys Ser Phe Phe Gln Met Ser Ala Phe Ile Thr Tyr Gln Phe Ser
      50           55           60
Leu Tyr Leu Ser Leu Phe *
      65           70

```

<210> 1720
 <211> 101
 <212> PRT
 <213> Homo sapiens

```

      <400> 1720
Met Leu Ala Gly Gln Leu Leu Pro Met Leu Thr Leu Leu Pro Pro Ser
      1           5           10           15

```

```

Phe Pro Leu Pro His Pro Thr Leu Gly Pro Arg Arg His Ala Ser Leu
      20      25      30
Thr Gln Leu Gly Pro Ala Phe Trp Met Ala Trp Gly Arg Pro Trp Ala
      35      40      45
His Leu Gly Pro Gly Gln Pro Leu Gly Gln Leu Trp Lys Ser Ser Val
      50      55      60
Glu Glu His Leu Leu Ala Ala Trp Leu Gln Pro Leu Ala Leu Leu Glu
      65      70      75      80
Trp Ser Leu Gly Ala Ser Ala Leu Ser Ala Leu Gly Thr Ser His Pro
      85      90      95
Leu Gly Leu Gln *
      100

```

<210> 1721

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1721

```

Met Leu Val Leu Leu Val Trp Val His His Thr Leu Leu Leu Gly Gln
  1      5      10      15
Lys Ser Thr Tyr Glu Glu Lys Arg Asn Gly Lys Trp Gly Arg Gln Arg
      20      25      30
Arg Ala Pro Tyr Leu Gly Val Tyr Ile Glu Ala Thr Gly Gln Val *
      35      40      45      47

```

<210> 1722

<211> 70

<212> PRT

<213> Homo sapiens

<400> 1722

```

Met Asp Val Gly Pro Asn Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1      5      10      15
Leu Leu Leu Leu Leu Val Thr Leu Arg Gly Gln Ala Asn Thr Gly Trp
      20      25      30
Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
      35      40      45
Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Asp Ala
      50      55      60
Ile Ser Leu Ile Leu *
      65      69

```

<210> 1723

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1723

```

Met Asp Leu Ile Phe Val Lys Val Leu Leu Ile Phe Ala Ala Ile Gln

```

```

      1           5           10           15
Thr Leu Ser Lys Trp Gln Phe Ala Phe Thr Phe Ser Ile Gln Thr Val
      20           25           30
Pro Ser Leu Val Ile Asn Leu Ser Trp Leu Leu Leu Asp Leu Lys Pro
      35           40           45
Gly Thr His Ile Gln *
      50           53

```

<210> 1724
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1724
Met Val Ser Gly Trp Ile Thr Lys Thr Gln Phe Leu Leu Leu Gly Arg
      1           5           10           15
Gly Lys Ile Cys Met Tyr Lys Cys Ile Lys Gln Leu Gln Val Arg Lys
      20           25           30
Thr Asp Val Ile Thr Thr Lys Gln Ile Asn Tyr Glu Glu Ile Asn Cys
      35           40           45
Leu Asn His Ile Met Leu Thr Thr Lys Phe Trp *
      50           55           59

```

<210> 1725
 <211> 63
 <212> PRT
 <213> Homo sapiens

```

      <400> 1725
Met Phe Phe Arg Met Gln Val Cys Glu His His Gly Phe Trp Val Ile
      1           5           10           15
Leu Leu Leu Leu Ser Leu Lys Met Glu Ile Pro Leu Ala Ala Tyr Pro
      20           25           30
Thr Ala Glu Tyr Ser Ser Ile Gly Ser Gly Phe Thr Pro Leu His Pro
      35           40           45
Ser Arg Thr Phe Thr Gln Ala Ser Pro Leu Pro Ser Ile Phe *
      50           55           60           62

```

<210> 1726
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1726
Met Cys Leu Phe Cys Ser Phe Val Asn Val Thr Leu Gly Ser Thr Asp
      1           5           10           15
Pro Met Cys Cys Pro Ala Gln Trp Leu Ala Gln Arg Met Pro Trp Ala
      20           25           30
Phe Val Ser Ile Arg Lys Ala Trp Pro Leu Gly Arg Met Ser Gly Ala
      35           40           45

```

Ser Gln Arg Leu Lys Glu Glu Glu *

50

55 56

<210> 1727

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1727

Met	Arg	Trp	Pro	Trp	Ala	Ser	Trp	Ala	Ala	Val	Leu	Leu	Lys	Leu	Pro
1				5				10					15		
Arg	Arg	Val	Leu	Pro	Trp	Leu	Pro	Cys	Gly	His	Gln	Gln	His	Val	Arg
		20						25					30		
Ala	Thr	Ala	Ser	Ser	Arg	Ser	Pro	Pro	Met	Pro	Val	Thr	Lys		
	35						40					45	46		

<210> 1728

<211> 46

<212> PRT

<213> Homo sapiens

<400> 1728

Met	Lys	Met	Glu	Thr	Lys	Arg	Ser	Trp	Arg	Pro	Gln	Ser	His
1				5			10				15		
Gly	His	Phe	Thr	Phe	Gln	Phe	Leu	Leu	Ser	Trp	Thr	Phe	Glu
		20					25					30	
Leu	Phe	His	Phe	Val	Pro	Phe	Phe	Pro	Tyr	Leu	Leu	Phe	*
	35						40					45	

<210> 1729

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1729

Met	Val	Leu	Leu	Pro	Leu	Gln	Cys	Gly	Leu	Thr	Lys	Ala	Ser	Ser	Cys
1				5				10					15		
Leu	His	Thr	Leu	Cys	Ser	Ser	Ser	Asp	Gln	Ile	Gly	Tyr	Leu	Pro	Val
		20						25					30		
Lys	Asn	Thr	Asp	Gln	Leu	Gly	Leu	Gln	Met	Glu	Val	Ala	Glu	Met	Cys
	35						40					45			48

*

<210> 1730

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1730

```

Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val Thr Cys
 1           5           10           15
Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile Asn Ser
           20           25           30
Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Val Pro Asp Val
           35           40           45
Cys *
49

```

<210> 1731

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1731

```

Met Gly Cys Asp Gly Arg Val Ser Gly Leu Leu Arg Arg Asn Leu Gln
 1           5           10           15
Pro Thr Leu Thr Tyr Trp Ser Val Phe Phe Ser Phe Gly Leu Cys Ile
           20           25           30
Ala Phe Leu Gly Pro Thr Leu Leu Asp Leu Arg Cys Gln Thr His Ser
           35           40           45
Ser Leu Pro Gln Ile Ser Trp Val Phe Phe Ser Gln Gln Leu Cys Leu
           50           55           60
Leu Leu Gly Ser Ala Leu Gly Gly Val Phe Lys Arg Thr Leu Ala Gln
           65           70           75           80
Ser Leu Trp Ala Leu Phe Thr Ser Ser Leu Ala Ile Ser Leu Val Phe
           85           90           95
Ala Val Ile Pro Phe Cys Arg Asp Val Lys Val Leu Ala Ser Val Met
           100          105          110
Ala Leu Ala Gly Leu Ala Met Gly Cys Ile Asp Thr Val Ala Asn Met
           115          120          125
Gln Leu Val Arg Met Tyr Gln Lys Asp Ser Ala Val Phe Leu Gln Val
           130          135          140
Leu His Phe Phe Val Gly Phe Gly Ala Leu Leu Ser Pro Leu Ile Ala
           145          150          155          160
Asp Pro Phe Leu Ser Glu Ala Asn Cys Leu Pro Ala Asn Ser Thr Gly
           165          170          175
Gln His His Leu Pro Arg Ala Thr Cys Ser Met Ser Pro Gly Cys Trp
           180          185          190
Gly Gln His His Val Asp Ala Gln Ala Leu Val Gln Pro Asp Val Pro
           195          200          205
Lys Ala Asp Ser Gln Gly Pro Gly Arg Glu Pro Glu Gly Pro Met Pro
           210          215          220
Ser Gly *
225 226

```

<210> 1732

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1732

```

Met Val Ser Lys Phe Leu Leu Ser His Leu Val Leu Ala Val Pro Leu
 1          5          10          15
Arg Val Leu Leu Val Leu Trp Ala Leu Cys Val Gly Leu Ser Arg Val
          20          25          30
Met Ile Gly Arg His His Val Thr Asp Val Leu Ser Gly Phe Val Ile
          35          40          45
Gly Tyr Leu Gln Phe Arg Met Met Glu Lys Val Ser Met Gln Tyr Lys
          50          55          60
Thr Cys Arg Met Leu Ile Phe Val Trp Arg Arg Ala Arg Arg Pro Thr
          65          70          75          80
His Thr Phe Glu Gly Arg Leu Val Ser Lys Lys Gly Gln Asp Leu Ala
          85          90          95
Arg Trp Leu Ser Leu *
          100 101

```

<210> 1733

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1733

```

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu
 1          5          10          15
Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala
          20          25          30
Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
          35          40          45
Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Thr Ser
          50          55          60
Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
          65          70          75          80
Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
          85          90          95
Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
          100          105          110
Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
          115          120          125
Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala *
          130          135          138

```

<210> 1734

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1734

```

Met Val Arg Ala Ser Phe Leu Cys Cys Val His Arg Thr Leu Gly Pro
 1          5          10          15
Trp Asp Leu Ser His Met Glu Leu Gly Gln Leu Leu Gln Asn Ala Pro
          20          25          30
Ser Ala His Arg Gly Cys Leu Gly Val Trp Lys Glu Val Val Pro Lys

```

35 40 45
 Gln Leu Val Cys Trp Ile Leu Thr Phe Phe Phe *
 50 55 59

<210> 1735
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 1735
 Met Cys Ala Cys Ala Val Arg Ala Leu Ser Leu Ala Gly Gly Ala Val
 1 5 10 15
 Leu Leu Ser Ser Leu Cys Ala Cys Ala Arg Ala Pro Arg Tyr Val Gly
 20 25 30
 Gly Glu Arg Arg Val Gln Ser Pro Ala Arg Pro Ala Asp Ser Val Ala
 35 40 45
 Arg Ile Ala Phe Ile Leu Phe Arg Phe Arg Thr Asp Leu Gln Ser Gly
 50 55 60
 Pro Ser Leu His Leu Gly Ile Cys *
 65 70 72

<210> 1736
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1736
 Met Met Ala Leu Phe Thr Gly Lys Leu Leu Gln Val Val Ser Lys Val
 1 5 10 15
 Leu Trp Leu Tyr Gln Thr Asn Phe Ser Leu His Thr His Tyr Ser Phe
 20 25 30
 Asn Arg Gly Gln Ile Phe Lys Arg Lys Thr Val Gln Asn Cys Arg His
 35 40 45
 Thr Cys Ala Asn Pro Gly Ser Val Glu Arg Leu Ile Trp Glu Phe Gln
 50 55 60 64
 *

<210> 1737
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1737
 Met Ile Gln Val Arg Asn Leu Ile Val Leu Val Cys Phe Leu Val Glu
 1 5 10 15
 Leu Leu Asn Val Pro Val Leu Phe Leu Tyr Ser Arg Gly Trp Gln Thr
 20 25 30
 Leu Thr His Gly Leu Thr Gln Leu Lys Thr Ala Phe Phe Leu *
 35 40 45 46

<210> 1738
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1738
 Met Val Thr Gln Leu Thr Leu Glu Val Leu His Leu Ser Leu Val Val
 1 5 10 15
 Gly Gln Val Ser Asn Asn Leu Leu Leu His Ile Gly Pro Leu Ala Ser
 20 25 30
 Glu Gln Met Phe Tyr Ala Val Ala Thr Lys Ile Arg Asp Glu Asn Thr
 35 40 45
 Tyr Lys Ile Cys Thr Trp Leu Glu Ile Lys Val His His Val Leu Leu
 50 55 60
 His Ile Gln Gly Thr Leu Thr Cys Ser Tyr Leu Ser His Ser Glu Gln
 65 70 75 80
 Leu Val Phe Gln Ser Tyr Glu Tyr Val Asp Cys Arg Gly Asn Ala Ser
 85 90 95
 Val Pro His Gln Leu Thr Pro His Pro Pro *
 100 105 106

<210> 1739
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1739
 Met Val Leu Pro Pro His Lys Thr Val Gln Leu Pro Arg Leu His Leu
 1 5 10 15
 Val Trp Leu Trp Val Ser Gln Ala Trp Val Gly Gly Thr Val Leu His
 20 25 30
 Trp Leu Ala Ser Gln Gln Leu Cys Val Leu Val Pro Ala Ser Leu Thr
 35 40 45
 Met Ser Trp Asp Leu Glu Ala Arg Leu Gly Tyr Ile Leu Ala Trp Met
 50 55 60
 Ser Leu Gly Pro Cys Tyr Cys Cys Leu Phe Thr Ile Pro Thr Leu Leu
 65 70 75 80
 Glu Ile Ser Leu Ile Val Ser Leu Ala *
 85 89

<210> 1740
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1740
 Met His Cys Val Leu Glu Ile Leu Val Ser Val Leu Gly Leu Thr His
 1 5 10 15
 His Leu Leu Leu Arg Asp Arg Asp His Tyr Arg Leu Val Arg Leu Met

			20					25					30				
Gly	Asp	Val	Gly	Gly	Glu	Gly	Glu	Leu	Lys	Ala	Met	Trp	Arg	Val	Cys		
		35					40						45				
Leu	Ser	Val	Cys	Arg	Val	Asp	Lys	*									
		50					55	56									

```
<210> 1741
<211> 49
<212> PRT
<213> Homo sapiens
```

```

<400> 1741
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1             5             10             15
Val Met Ser Pro Cys Gly Gly Glu Gly Ile Val Gly Glu Cys Met Ser
      20             25             30
Glu Gly Cys Ser Leu Glu Leu Lys Asn Ser Lys Leu Lys Glu Lys Arg
      35             40             45             48
*
```

```
<210> 1742
<211> 87
<212> PRT
<213> Homo sapiens
```

[illegible]

```
<210> 1743
<211> 49
<212> PRT
<213> Homo sapiens
```

<400> 1743
 Met Gly Phe Leu Ser Leu Thr Leu Tyr Leu Leu Thr Ser Leu Asn Lys
 1 5 10 15
 Met Leu Phe Lys Leu Arg Gly Ala Gln Pro Thr Glu Glu Asp Ile Gly
 20 25 30

Gly Trp Leu Asn Glu Leu Lys Thr Ser Leu Lys Tyr Ile Arg Leu Arg
 35 40 45 48

*

<210> 1744
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1744
 Met Gly Val Ser Glu Leu Leu Leu Leu Lys Met Ile Ala Ser Val
 1 5 10 15
 Ile Phe Leu Tyr Ser Phe Ile Ser Met Phe Lys Thr Gln Leu Leu Cys
 20 25 30
 Ser Ser Ser Thr Ser His Gly Ile Leu Glu Ser Arg Ile Lys Cys His
 35 40 45
 Ala Asp Phe Tyr Leu Phe Cys Gln *
 50 55 56

<210> 1745
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1745
 Met Asn Gln Leu Ser Phe Leu Leu Phe Leu Ile Ala Thr Thr Arg Gly
 1 5 10 15
 Trp Ser Thr Asp Glu Ala Asn Thr Tyr Phe Leu Glu Cys Thr Cys Ser
 20 25 30
 Trp Ser Pro Ser Leu Pro Lys Ser Cys Pro Glu Ile Lys Asp Gln Cys
 35 40 45
 Pro Ser Ala Phe Asp Gly Leu Tyr Phe Ile Arg Thr Glu Asn Ala Val
 50 55 60
 Ile His His Thr Phe Cys Val Met Thr Ser Ala Gly Cys Phe Trp Ile
 65 70 75 80
 Leu Lys Val Thr Val His Asn Tyr Asp Leu Thr Thr Asp Thr Pro *
 85 90 95

<210> 1746
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1746
 Met Val Ile Ser Ala Ala Val Leu Ser Ser Ile Leu Cys Val Phe Leu
 1 5 10 15
 Ser Lys Leu Val Leu Met Asn Asp Glu Cys Leu Arg Leu Thr Phe Trp
 20 25 30
 Leu His Cys Asn Ala Lys His Tyr Arg Tyr Ser Met Leu Gly Phe Pro

35
Lys Leu Thr Ser Val
50 53

40

45

<210> 1747
<211> 49
<212> PRT
<213> Homo sapiens

<400> 1747
Met Asn Phe Glu Ile Leu Ile Gln Arg Ser Leu Leu Phe Tyr Phe Val
1 5 10 15
Leu Ala Leu Asn Phe Pro Val Ala Ser Leu Asp Phe Phe Ser Val Lys
20 25 30
Ile Ile Ser Ala Val Phe Val Glu Gln Lys Phe Trp Asp Phe Val Lys
35 40 45 48
*

<210> 1748
<211> 196
<212> PRT
<213> Homo sapiens

<400> 1748
Met Ala Met Leu Pro Phe Pro Ile Phe Leu Val Leu Leu Arg Gly
1 5 10 15
Leu Val Leu Trp Thr Pro Ala Ser Ser Gly Thr Ile Met Pro Glu Glu
20 25 30
Arg Lys Thr Glu Ile Glu Arg Glu Thr Glu Thr Glu Ser Glu Thr Val
35 40 45
Ile Gly Thr Glu Lys Glu Asn Ala Pro Glu Arg Glu Arg Gly Ser Val
50 55 60
Ile Thr Val Leu His Gln Val Phe Ser Thr Ala Met Lys Asn Asp Thr
65 70 75 80
Asp Thr Gly Asn Met Gln Lys Glu Val Met Ser Val Thr Glu Gln Val
85 90 95
Glu Lys Lys Lys Asn Asp Ile Glu Lys Asp Asp Thr Gly Arg Lys Arg
100 105 110
Lys Pro Asp Ile Ser Leu Leu Glu Val Ile Val Asp Val Ala Met Lys
115 120 125
Val Lys Lys Glu Ile Val Thr Gly Asp Thr Asn Thr Lys Asn Leu Lys
130 135 140
Glu Ala Lys Lys Glu Lys Lys Arg Ala Val Ser Leu Pro Leu Asn Arg
145 150 155 160
Arg Ala Pro Lys Leu His Leu Gln Asn Arg His Gly Phe Gly Leu Leu
165 170 175
Cys Ile Leu Val Pro Glu Val Asp Thr Ile Asn Leu Val Ile Phe Leu
180 185 190
Asp Asn Val *
195

<210> 1749
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1749
 Met Leu Val Lys Val Val Tyr Val Met Gly Ala Ile Leu Lys Ile Phe
 1 5 10 15
 Leu Arg Glu Gly Asn Val Ile Asn Gln Arg Ser Gly Met Asp Ile Glu
 20 25 30
 Lys Tyr Ser Glu His Tyr Leu Ala Gln Gly Val Arg Trp *
 35 40 45

<210> 1750
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1750
 Met Glu Leu Val Arg Arg Leu Met Pro Leu Thr Leu Leu Ile Leu Ser
 1 5 10 15
 Cys Leu Ala Glu Leu Thr Met Ala Glu Ala Glu Gly Asn Ala Ser Cys
 20 25 30
 Thr Val Ser Leu Gly Gly Ala Asn Met Ala Glu Thr His Lys Ala Met
 35 40 45
 Ile Leu Gln Leu Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg
 50 55 60
 Pro Glu Asn Lys Ser Ile Arg Ile Ile Phe Cys Tyr Val Gln Leu Gly
 65 70 75 80
 Ser Glu
 82

<210> 1751
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1751
 Met Gly Ser Val Phe Trp His Val Leu Phe Cys Ile Ser Gly Val Cys
 1 5 10 15
 Leu Trp Cys Ala His Arg Met Ala Ala Phe Leu Gln Gln Met Ala Val
 20 25 30
 Leu Leu Pro Val Asp Cys Glu Arg Pro Ala Ala Val His Trp Leu Ala
 35 40 45
 Leu Cys Gly Cys Cys Tyr Gly Gln Leu Val Trp Glu Ser Arg Thr Arg
 50 55 60
 Ser Cys Phe Trp Ser Leu Glu Cys Leu Cys Phe Gly Gly Gln His Phe
 65 70 75 80
 Gly Ser Val Pro Ser Phe Phe Cys Ser Ser Val Trp Leu *
 85 90 93

<210> 1752
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1752
 Met Asp Thr Trp Leu Val Cys Trp Ala Ile Phe Ser Leu Leu Lys Ala
 1 5 10 15
 Gly Leu Thr Glu Pro Glu Val Thr Gln Thr Pro Ser His Gln Val Thr
 20 25 30
 Gln Met Gly Gln Glu Val Ile Leu Arg Cys Val Pro Ile Ser Asn His
 35 40 45
 Leu Tyr Phe Tyr Trp Tyr Arg Gln Ile Leu Gly Gln Lys Val Glu Phe
 50 55 60
 Leu Val Ser Phe Tyr Asn Asn Glu Ile Ser Glu Lys Ser Glu Ile Phe
 65 70 75 80
 Asp Asp Gln Phe Ser Val Glu Arg Pro Asp Gly Ser Asn Phe Thr Leu
 85 90 95
 Lys Ile Arg Ser Thr Lys Leu Glu Asp Ser Ala Met Tyr Phe Cys Ala
 100 105 110
 Ser Ser Glu Arg Gly Ser Gly Ala Asn Val Leu Thr Phe Gly Ala Gly
 115 120 125
 Ser Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
 130 135 140 143

<210> 1753
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1753
 Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1 5 10 15
 Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
 20 25 30
 Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
 35 40 45
 Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
 50 55 60 63

<210> 1754
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 1754
 Met Val Leu Gln Thr His Ala Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15
 Gly Ala Cys Gly Asp Ile Val Met Thr His Ser Pro Asp Ser Leu Ala
 20 25 30


```

Val Ser Leu Gly Glu Thr Ala Thr Ile Asp Cys Arg Ser Ser Gln Ser
    35              40              45
Val Leu Tyr His Ala Asn Asn Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
    50              55              60
Arg Pro Arg Gln Ser Pro Lys Val Leu Ile Phe Trp Ala Ser Thr Arg
    65              70              75              80
Glu Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
    85              90              95
Tyr Ser Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Thr Tyr
    100             105             110
Tyr Cys Gln Gln Tyr Tyr Asp Ser Pro Ile Thr Phe
    115             120             124

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<210> 1755
<211> 111
<212> PRT
<213> Homo sapiens

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<400> 1755
Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Leu Ser Leu Phe
  1              5              10              15
Ala Gly Leu Asn Pro Ser Lys Thr His Ile Asn Pro Lys Glu Gly Trp
    20              25              30
Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Gly Ile Cys Thr
    35              40              45
Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp Ala Lys Ser Arg
    50              55              60
Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn Met Ser Gln Ser Ile
    65              70              75              80
Glu Val Leu Asn Leu Arg Thr Gln Arg Asp Phe Gln Tyr Val Leu Lys
    85              90              95
Met Glu Thr Gln Met Lys Gly Leu Lys Ala Lys Phe Arg Gln Ile
    100             105             110 111

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<210> 1756
<211> 74
<212> PRT
<213> Homo sapiens

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<400> 1756
Met Leu Pro Arg Leu Val Leu Ser Ser Trp Pro Gln Ser Ile Phe Leu
  1              5              10              15
Pro Arg Phe Trp Asn Tyr Arg Cys Glu Pro Pro Cys Leu Ala Cys Phe
    20              25              30
Asp Ile Phe Tyr Ser Val Leu Ile Thr Asn Ser Leu His Met Pro Glu
    35              40              45
Tyr Lys Ser Lys Cys Tyr Leu Leu Phe Arg Trp Glu Leu Gln Lys Leu
    50              55              60
His Gln Lys Tyr Ala Leu Arg Tyr Ile *
    65              70              73

```

<210> 1757
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Met Glu Asn Val Asn Leu Lys Ala Ser Tyr Leu Gln Phe Ser Lys Leu
 1 5 10 15
 Met Ala Gly Lys Gly Trp Ala Leu Phe Ile Ala Leu Thr Phe Ser Gln
 20 25 30
 Arg Leu Leu Pro Cys Leu Ala Ile Ile Glu Ile Ile Asn Val Gly Val
 35 40 45
 Glu *
 49

<210> 1758
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1758
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Glu
 1 5 10 15
 Ser Val Ala Ser Tyr Glu Leu Phe Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Thr Phe Thr Cys Ser Gly Asp Asp Leu Gly Asn
 35 40 45
 Lys Tyr Ile Cys Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Val Val
 50 55 60
 Leu Met Tyr Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
 65 70 75 80
 Ser Gly Ser Asn Ser Gly Ser Thr Ala Thr Leu Thr Ile Ser Gly Thr
 85 90 95
 Gln Ala Thr Asp Glu Ala Leu Tyr Phe Cys Gln Ala Trp Asp Thr Asn
 100 105 110
 Gly Ala Val Phe Gly Gly Gly Thr Gln Leu Thr
 115 120 123

<210> 1759
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1759
 Met Arg Trp Arg Thr Ile Leu Leu Gln Tyr Cys Phe Leu Leu Ile Thr
 1 5 10 15
 Cys Leu Leu Thr Ala Leu Glu Ala Val Pro Ile Asp Ile Asp Lys Thr
 20 25 30
 Lys Val Gln Asn Ile His Pro Val Glu Ser Ala Lys Ile Glu Pro Pro
 35 40 45
 Asp Thr Gly Leu Tyr Tyr Asp Glu Ile Val Leu Glu Glu Leu Gly Gly
 50 55 60

Pro Cys Leu Tyr Leu Glu Gly Asn Pro Thr *
 65 70 74

<210> 1760
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1760
 Met Arg Leu Pro Asp Val Gln Leu Trp Leu Val Leu Leu Trp Ala Leu
 1 5 10 15
 Val Arg Ala Gln Gly Thr Gly Ser Val Cys Pro Ser Cys Gly Gly Ser
 20 25 30
 Lys Leu Ala Pro Gln Ala Glu Arg Ala Leu Val Leu Glu Leu Ala Lys
 35 40 45
 Gln Gln Ile Leu Asp Gly Leu His Leu Thr Ser Arg Pro Arg Ile Thr
 50 55 60
 His Pro Pro Pro Gln Ala Leu Thr Arg Ala Leu Arg Arg Leu Gln
 65 70 75 80
 Pro Gly Ser Val Ala Pro Gly Asn Gly Glu Glu Val Ile Ser Phe Ala
 85 90 95
 Thr Val Thr Asp Ser Thr Ser Ala Tyr Ser Ser Leu Leu Thr Phe His
 100 105 110
 Leu Ser Thr Pro Arg Ser His His Leu Tyr
 115 120 122

<210> 1761
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1761
 Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
 1 5 10 15
 Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
 20 25 30
 Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val Lys Asp His
 35 40 45
 Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu
 50 55 60
 Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Asp Ser Leu Lys
 65 70 75 80
 Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser
 85 90 95
 Pro Asn Pro Glu Asn Lys Asp Tyr Glu Glu Pro Lys Lys Val Arg Lys
 100 105 110
 Pro Gly Ser Leu Asp Ile Phe Leu Ala Phe *
 115 120 122

<210> 1762
 <211> 145

<212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(145)
 <223> Xaa = any amino acid or nothing

<400> 1762
 Met Ala Leu Ala Ala Leu Met Ile Ala Leu Gly Ser Leu Gly Leu His
 1 5 10 15
 Thr Trp Gln Ala Gln Ala Val Pro Thr Ile Leu Pro Leu Gly Leu Ala
 20 25 30
 Pro Asp Thr Phe Asp Asp Thr Tyr Val Gly Cys Ala Glu Glu Met Glu
 35 40 45
 Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala His His Ala Leu
 50 55 60
 Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr Trp Glu Asp Lys Arg
 65 70 75 80
 Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys Ala Gln Asn Gly Ile Ala
 85 90 95
 Ile Met Val Tyr Thr Asn Ser Ser Asn Thr Leu Tyr Trp Glu Leu Asn
 100 105 110
 Xaa Ala Val Arg Thr Gly Gly Gly Ser Arg Glu Leu Tyr Met Arg His
 115 120 125
 Phe Pro Phe Lys Ala Leu His Phe Tyr Leu Ile Arg Ala Leu Gln Leu
 130 135 140
 Leu
 145

<210> 1763
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 1763
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15
 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Gly Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

```

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
      165      170      175
Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
      180      185      190
Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
      195      200      205
Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Asn
      210      215      220
Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Glu Tyr Arg Lys Ser Ser
      225      230      235      240
Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
      245      250      255 256

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<210> 1764
<211> 166
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(166)
<223> Xaa = any amino acid or nothing

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```

<400> 1764
Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu
  1      5      10      15
Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser Gly
      20      25      30
Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro
      35      40      45
Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe
      50      55      60
Gly Tyr Gly Glu Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe
      65      70      75      80
Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala
      85      90      95
Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala
      100      105      110
Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val
      115      120      125
Gly Phe Gln Asp Met Glu Trp Trp Xaa Ala Leu Val Gly Arg Thr Pro
      130      135      140
Phe Leu Pro Ser Leu Tyr Gly Asn Pro Ala Leu Gly Cys Gln Pro Arg
      145      150      155      160
Val Gln Thr Phe Gly Glu
      165 166

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<210> 1765
<211> 90
<212> PRT
<213> Homo sapiens

```

<400> 1765

```

Met Ser Cys Ser Cys Pro Pro Cys Phe Phe Thr Leu Phe Leu His Ser
 1          5          10          15
Ile Cys Gln Asp Ile Ser Trp Phe His Pro Gln Thr Pro Thr Leu Asp
          20          25          30
Ser Leu Leu Asn Trp Ile Asp Asp Leu Ile Phe Tyr Gly Thr Leu Tyr
          35          40          45
Asn Phe Phe Pro Glu Glu Thr Pro Leu Phe Thr Phe Leu Leu Thr Leu
          50          55          60
Tyr Leu Ser Leu Leu Leu Leu Trp Leu Pro Gly Met Ala Ala Leu Pro
          65          70          75          80
Leu Ala Val Met Pro Asn Tyr Leu Tyr Lys
          85          90

```

<210> 1766

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1766

```

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ser Leu Trp
 1          5          10          15
Leu Cys Cys Ala Thr Pro Ala Pro Ala Leu Gln Cys Pro Glu Gly Tyr
          20          25          30
Glu Pro Ser Pro Leu Asp Arg Lys Cys Ala Pro Tyr Pro Asn Val Arg
          35          40          45
Arg Ser Cys Pro Cys Pro Glu Gly Phe
          50          55          57

```

<210> 1767

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1767

```

Met Val Phe Leu Tyr Gly Phe Val Phe Ile Lys Lys Ala Gln Leu Ile
 1          5          10          15
Val Val Leu Leu Phe Thr Asp Val Ala Gln Arg Thr Ala Ala Gly Arg
          20          25          30
Pro Pro Thr Pro Val Leu Gly Pro Pro Ser Pro Glu Cys Cys Leu Leu
          35          40          45
Phe Met Glu Gly Glu Gln Trp Ile Leu Gly Thr Thr Gly Gln Ala
          50          55          60          63

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<210> 1768

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1768

```

Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
 1           5           10           15
Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
          20          25          30
Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
          35          40          45
Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
          50          55          60
Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
          65          70          75          80
Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Asp Glu His Ile Cys Thr
          85          90          95
Thr Gln Ser Pro Cys Gln Asn Gly Gly Gln Cys Met Tyr Asp Gly Gly
          100         105         110
Gly Glu Tyr His Cys Val Cys Leu Pro Gly Phe His Gly Arg Asp Cys
          115         120         125
Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg Asn
          130         135         140
Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr Cys
145          150          155          160
Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Asp Val *
          165          170          173

```

<210> 1769

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1769

```

Met Leu Cys Leu Cys Arg Phe Ala Cys Ser Arg Arg Phe Thr Ala Met
 1           5           10           15
Gly Leu Phe Cys Leu Ala Ser Leu Thr Leu His His Ile Phe Lys Val
          20          25          30
His Pro Ser Cys Ser Val Ser Val Pro Pro Gly Phe Ser Leu Leu Ser
          35          40          45
Ser Ala Arg Cys Met Asp Arg Pro Arg Cys Ala His Leu Phe Ala Leu
          50          55          60
Met Gly Pro Cys Leu Gly Leu Ser Thr Phe Gly Arg Leu *
65          70          75          77

```

<210> 1770

<211> 149

<212> PRT

<213> Homo sapiens

<400> 1770

```

Met Leu Val Thr Leu Gly Leu Leu Thr Ser Phe Phe Ser Phe Leu Tyr
 1           5           10           15
Met Val Ala Pro Ser Ile Arg Lys Phe Phe Ala Gly Gly Val Cys Arg
          20          25          30
Thr Asn Val Gln Leu Pro Gly Lys Val Val Val Ile Thr Gly Ala Asn
          35          40          45
Thr Gly Ile Gly Lys Glu Thr Ala Arg Glu Leu Ala Ser Arg Gly Ala

```

```

      50              55              60
Arg Val Tyr Ile Ala Cys Arg Asp Val Leu Lys Gly Glu Ser Ala Ala
 65              70              75              80
Ser Glu Ile Arg Val Asp Thr Lys Asn Ser Gln Val Leu Val Arg Lys
      85              90              95
Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Glu Gly Phe
      100              105              110
Leu Ala Glu Glu Lys Gln Leu His Ile Leu Ile Asn Asn Ala Gly Val
      115              120              125
Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Thr His Leu
      130              135              140
Gly Val Asn His Leu
145              149

```

<210> 1771
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

      <400> 1771
Met Met Thr Leu Leu Arg Arg Gln Glu Arg Phe Pro Gly Ile Thr Phe
  1              5              10              15
Trp Leu Leu Ile Gln Leu Leu Gln Gln Ile Leu Ile Ser Tyr His Gln
      20              25              30
Gly Ser Leu Thr Phe Met Glu Asn Gly Asn Cys Leu Leu Gln Leu Phe
      35              40              45
Gln Leu Gly Lys Leu Leu Val Gln Ala Ser His Leu His Gly Gln Leu
      50              55              60
Leu Val Phe Val Gln Lys Ile Ile Ile Ser Met *
 65              70              75

```

<210> 1772
 <211> 128
 <212> PRT
 <213> Homo sapiens

```

      <400> 1772
Met Gly Ser Thr Lys His Trp Gly Glu Trp Leu Leu Asn Leu Lys Val
  1              5              10              15
Ala Pro Ala Gly Val Phe Gly Val Ala Phe Leu Ala Arg Val Ala Leu
      20              25              30
Val Phe Tyr Gly Val Phe Gln Asp Arg Thr Leu His Val Arg Tyr Thr
      35              40              45
Asp Ile Asp Tyr Gln Val Phe Thr Asp Ala Ala Arg Phe Val Thr Glu
      50              55              60
Gly Arg Ser Pro Tyr Leu Arg Ala Thr Tyr Arg Tyr Thr Pro Leu Leu
 65              70              75              80
Gly Trp Leu Leu Thr Pro Asn Ile Tyr Leu Ser Glu Leu Phe Gly Lys
      85              90              95
Phe Leu Phe Ile Ser Cys Asp Leu Leu Thr Ala Phe Leu Leu Tyr Arg
      100              105              110
Leu Leu Leu Leu Lys Gly Leu Gly Arg Arg Gln Ala Cys Gly Tyr Cys
115              120              125              128

```


<210> 1773
 <211> 614
 <212> PRT
 <213> Homo sapiens

<400> 1773
 Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
 35 40 45
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
 50 55 60
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65 70 75 80
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
 85 90 95
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
 100 105 110
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
 115 120 125
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
 130 135 140
 Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
 145 150 155 160
 Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
 165 170 175
 His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
 180 185 190
 Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
 195 200 205
 Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
 210 215 220
 Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
 225 230 235 240
 Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
 245 250 255
 Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
 260 265 270
 Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
 275 280 285
 Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
 290 295 300
 Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
 305 310 315 320
 Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
 325 330 335
 Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
 340 345 350
 Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
 355 360 365
 Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val

```

      370      375      380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385      390      395      400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
      405      410      415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
      420      425      430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
      435      440      445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
      450      455      460
Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465      470      475      480
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
      485      490      495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro
      500      505      510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
      515      520      525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
530      535      540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545      550      555      560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
      565      570      575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
      580      585      590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
595      600      605
Arg Leu Arg Lys Arg *
610      613

```

```

<210> 1774
<211> 156
<212> PRT
<213> Homo sapiens

```

```

<400> 1774
Met Glu Ala Leu Thr Leu Trp Leu Leu Pro Trp Ile Cys Gln Cys Val
 1      5      10      15
Ser Val Arg Ala Asp Ser Ile Ile His Ile Gly Ala Ile Phe Glu Glu
      20      25      30
Asn Ala Ala Lys Asp Asp Arg Val Phe Gln Leu Ala Val Ser Asp Leu
      35      40      45
Ser Leu Asn Asp Asp Ile Leu Gln Ser Glu Lys Ile Thr Tyr Ser Ile
      50      55      60
Lys Val Ile Glu Ala Asn Asn Pro Phe Gln Ala Val Gln Glu Ala Cys
      65      70      75      80
Asp Leu Met Thr Gln Gly Ile Leu Ala Leu Val Thr Ser Thr Gly Cys
      85      90      95
Ala Ser Ala Asn Ala Leu Gln Ser Leu Thr Asp Ala Met His Ile Pro
      100      105      110
His Leu Phe Val Gln Arg Asn Pro Gly Gly Ser Pro Arg Thr Ala Cys
      115      120      125
His Leu Asn Pro Ser Pro Asp Gly Glu Ala Tyr Thr Leu Ala Ser Arg
130      135      140

```

Pro Pro Val Arg Leu Asn Asp Val Met Leu Arg Leu
 145 150 155 156

<210> 1775
 <211> 896
 <212> PRT
 <213> Homo sapiens

<400> 1775
 Met Gln Lys Ala Ser Val Leu Leu Phe Leu Ala Trp Val Cys Phe Leu
 1 5 10 15
 Phe Tyr Ala Gly Ile Ala Leu Phe Thr Ser Gly Phe Leu Leu Thr Arg
 20 25 30
 Leu Glu Leu Thr Asn His Ser Ser Cys Gln Glu Pro Pro Gly Pro Gly
 35 40 45
 Ser Leu Pro Trp Gly Ser Gln Gly Lys Pro Gly Ala Cys Trp Met Ala
 50 55 60
 Ser Arg Phe Ser Arg Val Val Leu Val Leu Ile Asp Ala Leu Arg Phe
 65 70 75 80
 Asp Phe Ala Gln Pro Gln His Ser His Val Pro Arg Glu Pro Pro Val
 85 90 95
 Ser Leu Pro Phe Leu Gly Lys Leu Ser Ser Leu Gln Arg Ile Leu Glu
 100 105 110
 Ile Gln Pro His His Ala Arg Leu Tyr Arg Ser Gln Val Asp Pro Pro
 115 120 125
 Thr Thr Thr Met Gln Arg Leu Lys Ala Leu Thr Thr Gly Ser Leu Pro
 130 135 140
 Thr Phe Ile Asp Ala Gly Ser Asn Phe Ala Ser His Ala Ile Val Glu
 145 150 155 160
 Asp Asn Leu Ile Lys Gln Leu Thr Ser Ala Gly Arg Arg Val Val Phe
 165 170 175
 Met Gly Asp Asp Thr Trp Lys Asp Leu Phe Pro Gly Ala Phe Ser Lys
 180 185 190
 Ala Phe Phe Phe Pro Ser Phe Asn Val Arg Asp Leu Asp Thr Val Asp
 195 200 205
 Asn Gly Ile Leu Glu His Leu Tyr Pro Thr Met Asp Ser Gly Glu Trp
 210 215 220
 Asp Val Leu Ile Ala His Phe Leu Gly Val Asp His Cys Gly His Lys
 225 230 235 240
 His Gly Pro His His Pro Glu Met Ala Lys Lys Leu Ser Gln Met Asp
 245 250 255
 Gln Val Ile Gln Gly Leu Val Glu Arg Leu Glu Asn Asp Thr Leu Leu
 260 265 270
 Val Val Ala Gly Asp His Gly Met Thr Thr Asn Gly Asp His Gly Gly
 275 280 285
 Asp Ser Glu Leu Glu Val Ser Ala Ala Leu Phe Leu Tyr Ser Pro Thr
 290 295 300
 Ala Val Phe Pro Ser Thr Pro Pro Glu Glu Pro Glu Val Ile Pro Gln
 305 310 315 320
 Val Ser Leu Val Pro Thr Leu Ala Leu Leu Leu Gly Leu Pro Ile Pro
 325 330 335
 Phe Gly Asn Ile Gly Glu Val Met Ala Glu Leu Phe Ser Gly Gly Glu
 340 345 350
 Asp Ser Gln Pro His Ser Ser Ala Leu Ala Gln Ala Ser Ala Leu His
 355 360 365
 Leu Asn Ala Gln Gln Val Ser Arg Phe Phe His Thr Tyr Ser Ala Ala

370	375	380
Thr Gln Asp Leu Gln Ala Lys Glu Leu His Gln Leu Gln Asn Leu Phe		
385	390	395
Ser Lys Ala Ser Ala Asp Tyr Gln Trp Leu Leu Gln Ser Pro Lys Gly		400
	405	410
Ala Glu Ala Thr Leu Pro Thr Val Ile Ala Glu Leu Gln Gln Phe Leu		415
	420	425
Arg Gly Ala Arg Ala Met Cys Ile Glu Ser Trp Ala Arg Phe Ser Leu		430
	435	440
Val Arg Met Ala Gly Gly Thr Ala Leu Leu Ala Ala Ser Cys Phe Ile		445
	450	455
Cys Leu Leu Ala Ser Gln Trp Ala Ile Ser Pro Gly Phe Pro Phe Cys		460
465	470	475
Pro Leu Leu Leu Thr Pro Val Ala Trp Gly Leu Val Gly Ala Ile Ala		480
	485	490
Tyr Ala Gly Leu Leu Gly Thr Ile Glu Leu Lys Leu Asp Leu Val Leu		495
	500	505
Leu Gly Ala Val Ala Ala Val Ser Ser Phe Leu Pro Phe Leu Trp Lys		510
	515	520
Ala Trp Ala Gly Trp Gly Ser Lys Arg Pro Leu Ala Thr Leu Phe Pro		525
530	535	540
Ile Pro Gly Pro Val Leu Leu Leu Leu Phe Arg Leu Ala Val Phe		545
545	550	555
Phe Ser Asp Ser Phe Val Val Ala Glu Ala Arg Ala Thr Pro Phe Leu		560
	565	570
Leu Gly Ser Phe Ile Leu Leu Leu Val Val Gln Leu His Trp Glu Gly		575
	580	585
Gln Leu Leu Pro Pro Lys Leu Leu Thr Met Pro Arg Leu Gly Thr Ser		590
	595	600
Ala Thr Thr Asn Pro Pro Arg His Asn Gly Ala Tyr Ala Leu Arg Leu		605
	610	615
Gly Ile Gly Leu Leu Leu Cys Thr Arg Leu Ala Gly Leu Phe His Arg		620
625	630	635
Cys Pro Glu Glu Thr Pro Val Cys His Ser Ser Pro Trp Leu Ser Pro		640
	645	650
Leu Ala Ser Met Val Gly Gly Arg Ala Lys Asn Leu Trp Tyr Gly Ala		655
	660	665
Cys Val Ala Ala Leu Val Ala Leu Leu Ala Ala Val Arg Leu Trp Leu		670
	675	680
Arg Arg Tyr Gly Asn Leu Lys Ser Pro Glu Pro Pro Met Leu Phe Val		685
	690	695
Arg Trp Gly Leu Pro Leu Met Ala Leu Gly Thr Ala Ala Tyr Trp Ala		700
705	710	715
Leu Ala Ser Gly Ala Asp Glu Ala Pro Pro Arg Leu Arg Val Leu Val		720
	725	730
Ser Gly Ala Ser Met Val Leu Pro Arg Ala Val Ala Gly Leu Ala Ala		735
	740	745
Ser Gly Leu Ala Leu Leu Leu Trp Lys Pro Val Thr Val Leu Val Lys		750
	755	760
Ala Gly Ala Gly Ala Pro Arg Thr Arg Thr Val Leu Thr Pro Phe Ser		765
	770	775
Gly Pro Pro Thr Ser Gln Ala Asp Leu Asp Tyr Val Val Pro Gln Ile		780
785	790	795
Tyr Arg His Met Gln Glu Glu Phe Arg Gly Arg Leu Glu Arg Thr Lys		800
	805	810
Ser Gln Gly Pro Leu Thr Val Ala Ala Tyr Gln Leu Gly Ser Val Tyr		815
	820	825
Ser Ala Ala Met Val Thr Ala Leu Thr Leu Leu Ala Phe Pro Leu Leu		830
	835	840
		845

Leu Leu His Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Leu Phe Leu
 850 855 860
 Gln Ser Phe Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr
 865 870 875 880
 Thr Pro Gly Lys Tyr Leu Ser Ser Asp Ser Leu Lys Asp Asn Ser Asp
 885 890 895 896

<210> 1776

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1776

Met Trp Ala Cys Trp Cys Val Leu Gly Thr Pro Gly Val Ala Met Val
 1 5 10 15
 Leu Leu His Thr Thr Ile Ser Phe Cys Val Ala Gln Phe Arg Ser Gln
 20 25 30
 Leu Leu Thr Trp Leu Cys Ser Leu Leu Leu Leu Ser Thr Leu Arg Leu
 35 40 45
 Gln Gly Val Glu Glu Val Lys Arg Arg Trp Tyr Lys Thr Glu Asn Glu
 50 55 60
 Tyr Tyr Leu Leu Gln Phe Thr Leu Thr Val Arg Cys Leu Tyr Tyr Thr
 65 70 75 80
 Ser Phe Ser Leu Glu Leu Cys Trp Gln Gln Leu Pro Ala Ala Ser Thr
 85 90 95
 Ser Tyr Ser Phe Pro Trp Met Leu Ala Tyr Val Phe Tyr Tyr Pro Val
 100 105 110
 Leu His Asn Gly Pro Ile Leu Ser Phe Ser Glu Phe Ile Lys Gln Arg
 115 120 125
 Ser Gln Trp Ser Asn Arg Glu Phe Gly Met Glu Val Glu Ser Lys Gly
 130 135 140
 Pro Gly Ala His Pro Pro Gly Phe Glu Ser Leu Leu Cys Phe Gly Leu
 145 150 155 160
 Arg Val Leu Ala Glu Leu Leu Thr Leu Leu Met Pro Gln Ser Ser Tyr
 165 170 175
 Gln *
 177

<210> 1777

<211> 59

<212> PRT

<213> Homo sapiens

<400> 1777

Met Pro Thr Tyr Trp Leu Ala Asn Leu Arg Pro Gly Leu Gln Pro Phe
 1 5 10 15
 Leu Leu His Phe Leu Leu Glu Trp Leu Ala Val Phe Cys Cys Lys Ile
 20 25 30
 Met Val Leu Ala Ala Ala Gly Leu Leu Pro Thr Leu His Met Ala Ser
 35 40 45
 Phe Phe Ser Asn Ala Leu Tyr Asn Cys Phe Tyr

50

55

59

<210> 1778
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1778
 Met Val Ala Pro Gly Leu Val Leu Gly Leu Val Leu Pro Leu Ile Leu
 1 5 10 15
 Trp Ala Asp Arg Ser Ala Gly Ile Gly Phe Arg Phe Ala Ser Tyr Ile
 20 25 30
 Asn Asn Asp Met Val Leu Gln Lys Glu Pro Ala Gly Ala Val Ile Trp
 35 40 45
 Gly Phe Gly Thr Pro Gly Ala Thr Val Thr Val Thr Leu Arg Gln Gly
 50 55 60
 Gln Glu Thr Ile Met Lys Lys Val Thr Ser Val Lys Ala His Ser Asp
 65 70 75 80
 Thr Trp Met Val Val Leu Asp Pro Met Lys Pro Gly Gly Pro Phe Glu
 85 90 95
 Val Met Ala Gln Gln Thr Leu Glu Lys Ile Asn Phe Thr Leu Arg Val
 100 105 110
 His Asp Val Leu Phe Gly Asp Val Trp Leu Cys Ser Gly Gln Ser Asn
 115 120 125
 Met Gln Met Thr Val Leu Gln Ile Phe
 130 135 137

<210> 1779
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1779
 Met Lys Val Phe Phe Leu Asp Glu Ser Trp Pro Gln Trp Arg Phe Ala
 1 5 10 15
 Ala Gly Leu Leu Ala Leu Ser Phe Gly Gly Pro Ala Trp Lys Phe Leu
 20 25 30
 Ser Val Gln Arg Val Ile Pro Trp Leu Trp Ala Ala Lys Glu Lys Pro
 35 40 45
 Leu Gly Pro Leu Ala Thr Pro Pro Arg Leu Asn Pro Lys Val Gly Val
 50 55 60 64
 *

<210> 1780
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1780

```

Met Phe His Cys Tyr Trp Phe Arg Cys Leu Ser Pro Gln Thr Leu Leu
 1           5           10           15
Cys Lys Cys Phe Ser Lys Gly Arg Thr Asp Trp Asn Cys Gly Ser Ala
          20           25           30
Arg Ser His Ser Phe Gln Ser His Phe Phe Ser Ala Ala Leu Ser Ser
      35           40           45
Cys Gly Thr Leu *
      50           52

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```

<210> 1781
<211> 109
<212> PRT
<213> Homo sapiens

```

```

<400> 1781
Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
 1           5           10           15
Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
          20           25           30
Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
          35           40           45
Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
      50           55           60
Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
      65           70           75           80
Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
          85           90           95
Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
          100           105           109

```

```

<210> 1782
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1782
Met Ala Ser Thr Trp Ser Leu Glu Arg Val Gly Thr Cys Leu Pro Cys
 1           5           10           15
Gly Phe Gly Thr Trp Gln Ser Thr Ala Arg Trp Pro Ser Cys Arg Ser
          20           25           30
Thr Ser Met Val Trp Leu Val Trp Pro Ser Leu Leu Ala Pro Ser Thr
          35           40           45
Leu Ser Leu Trp Ala Thr Ser Met Thr *
      50           55           57

```

```

<210> 1783
<211> 102
<212> PRT
<213> Homo sapiens

```

<400> 1783

```

Met Leu Ile Pro His Gln Leu Pro Leu Cys Ser Pro Trp Leu Val Gln
 1             5             10             15
Ala Met Leu Thr Ile Glu Val Pro Trp Leu Leu Gly Leu Ala His Tyr
      20             25             30
Arg Leu Gly Trp His Ala Leu Glu Gly Ile Phe Trp Trp Gly Ala Ser
      35             40             45
Val Phe His Ala Leu Gln Ala Met Leu Val Arg Lys Trp Pro Leu Gly
      50             55             60
Leu Val Glu Phe Thr Gly Thr Cys Gly Ile Leu Val Glu Val Ile Gly
      65             70             75             80
Leu Trp Trp Gly Glu Gly Ser Thr Gly Asn Arg Trp Met Gly Leu Asn
      85             90             95
Ser Thr Gly Gly Gln *
      100 101

```

<210> 1784

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1784

```

Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1             5             10             15
Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
      20             25             30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
      35             40             45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
      50             55             60
Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
      65             70             75             80
Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
      85             90             95
Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
      100             105             110
Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
      115             120             125
Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
      130             135             140
Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
      145             150             155             160
Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
      165             170             175
Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
      180             185             190
Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
      195             200             205
His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser Ser His Ser Arg
      210             215             220
Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
      225             230             235             240
Gln Leu *
      242

```


<210> 1785
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1785
 Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
 1 5 10 15
 Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
 20 25 30
 Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
 35 40 45
 Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
 50 55 60
 Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
 65 70 75 80
 Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
 85 90 95
 Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
 100 105 110
 Arg Pro Phe Glu Arg Ser Thr Ile Ile Ser Arg Ser Phe Lys Lys Ile
 115 120 125
 Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
 130 135 140
 Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr
 145 150 155 158

<210> 1786
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1786
 Met Glu Ser Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val
 1 5 10 15
 Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala
 20 25 30
 Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val
 35 40 45
 Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro
 50 55 60
 Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro
 65 70 75 80
 Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met
 85 90 95
 Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn
 100 105 110
 Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn
 115 120 125
 Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro
 130 135 140 142

<210> 1787
 <211> 120
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(120)
 <223> Xaa = any amino acid or nothing

<400> 1787
 Met Ala Leu Thr Gly Tyr Ser Trp Leu Leu Leu Ser Ala Thr Phe Leu
 1 5 10 15
 Asn Val Gly Ala Glu Ile Ser Ile Thr Leu Glu Pro Ala Gln Pro Ser
 20 25 30
 Glu Gly Asp Asn Val Thr Leu Val Val His Gly Leu Ser Gly Glu Leu
 35 40 45
 Leu Ala Tyr Ser Trp Tyr Ala Gly Pro Thr Leu Ser Val Ser Tyr Leu
 50 55 60
 Val Ala Ser Tyr Ile Val Ser Thr Gly Asp Glu Thr Pro Gly Pro Ala
 65 70 75 80
 His Thr Xaa Arg Glu Ala Val Arg Pro Asp Gly Ser Leu Asp Ile Gln
 85 90 95
 Gly Ile Leu Pro Arg His Ser Ser Thr Tyr Ile Leu Gln Thr Phe Asn
 100 105 110
 Arg Gln Leu Gln Thr Glu Val Gly
 115 120

<210> 1788
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1788
 Met Ser Trp Leu Ala Asn Gly Val Cys Leu Tyr Glu Tyr Leu Phe Phe
 1 5 10 15
 Arg Cys Gly Phe Leu Ile Leu Gln Pro Cys Ser Phe Asp Ala Ser Leu
 20 25 30
 Thr Asp Glu Glu Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp
 35 40 45
 Gly Pro Gln Gly Val Val Asn Asp Asp Phe Lys Ile Leu Ala Ile Trp
 50 55 60
 Tyr Ile Leu *
 65 67

<210> 1789
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 1789
 Met Ala Val Val Ile Arg Leu Leu Gly Leu Pro Phe Ile Ala Gly Pro
 1 5 10 15

Val Asp Ile Arg His Phe Phe Thr Gly Leu Thr Ile Pro Asp Gly Gly
 20 25 30
 Val His Ile Ile Gly Gly Glu Ile Gly Glu Ala Phe Ile Ile Phe Ala
 35 40 45
 Thr Asp Glu Asp Ala Arg Arg Ala Ile Ser Arg Ser Gly Gly Phe Ile
 50 55 60
 Lys Asp Ser Ser Val Glu Leu Phe Leu Ser Ser Lys Ala Glu Met Gln
 65 70 75 80
 Lys Thr Ile Glu Met Lys Arg Thr Asp Arg Val Gly Arg Gly Arg Pro
 85 90 95
 Gly Ser Gly Thr Ser Gly Val Asp Ser Leu Ser Asn Phe Ile Glu Ser
 100 105 110
 Val Lys Glu Glu Ala Ser Asn Ser Gly Tyr Gly Ser Ser Ile Asn Gln
 115 120 125
 Asp Ala Gly Phe His
 130 133

<210> 1790
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1790
 Met Ala Ala Trp Gly Phe Cys Phe Ala Val Ser Ala Leu Val Val Ala
 1 5 10 15
 Cys Glu Phe Thr Arg Leu His Gly Cys Leu Arg Leu Ser Trp Gly Asn
 20 25 30
 Phe Thr Ala Ala Phe Ala Met Leu Ala Thr Leu Leu Cys Ala Thr Ala
 35 40 45
 Ala Val Leu Tyr Pro Leu Tyr Phe Ala Arg Arg Glu Cys Pro Pro Glu
 50 55 60
 Pro Ala Gly Cys Ala Ala Arg Asp Phe Arg Leu Ala Ala Ser Val Phe
 65 70 75 80
 Ala Gly
 82

<210> 1791
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1791
 Met His Ala Ser Glu Gly Leu Pro Ala Leu Pro Leu Leu Ala Leu Val
 1 5 10 15
 Ser His Ser His Ser Cys Pro Pro Leu Pro Leu Gln Pro His His Leu
 20 25 30
 Pro Ala Ile Leu Phe Phe Leu Val Gly His Gln Leu Met Lys Cys Ile
 35 40 45
 Arg *
 49

<210> 1792
 <211> 166
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(166)
 <223> Xaa = any amino acid or nothing

<400> 1792
 Met Leu Leu Trp Leu Leu Leu Leu Ile Leu Thr Pro Gly Arg Glu Gln
 1 5 10 15
 Ser Gly Val Ala Pro Lys Ala Val Leu Leu Leu Asp Pro Pro Trp Ser
 20 25 30
 Thr Ala Phe Lys Gly Glu Lys Val Ala Leu Ile Cys Ser Ser Ile Ser
 35 40 45
 His Ser Leu Ala Gln Gly Asp Thr Tyr Trp Tyr His Asp Glu Lys Leu
 50 55 60
 Leu Lys Ile Lys His Asp Lys Ile Gln Ile Thr Glu Pro Gly Asn Tyr
 65 70 75 80
 Gln Cys Lys Thr Arg Gly Ser Ser Leu Ser Asp Ala Val His Val Glu
 85 90 95
 Phe Ser Pro Asp Trp Leu Ile Leu Gln Ala Leu His Pro Val Phe Glu
 100 105 110
 Gly Asp Asn Val Ile Leu Arg Cys Gln Gly Lys Asp Asn Lys Asn Thr
 115 120 125
 His His Lys Val Tyr Tyr Lys Asp Gly Lys Gln Xaa Ser Asn Ser Tyr
 130 135 140
 Asn Leu Glu Lys Asn Thr Val Asp Ser Val Ser Arg Asp Asn Ser Pro
 145 150 155 160
 Tyr Tyr Cys Ala Gly *
 165

<210> 1793
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1793
 Met Ala Thr Ala Ala Gln Gly Pro Leu Ser Leu Leu Trp Gly Trp Leu
 1 5 10 15
 Trp Ser Glu Arg Phe Trp Leu Pro Glu Asn Val Ser Trp Ala Asp Leu
 20 25 30
 Glu Gly Pro Ala Asp Gly Tyr Gly Tyr Pro Arg Gly Arg His Ile Leu
 35 40 45
 Ser Val Phe Pro Leu Ala Ala Gly Ile Phe Phe Val Arg Leu Leu Phe
 50 55 60
 Glu Arg Phe Ile Ala Lys Pro Cys Ala Leu Arg Ile Gly Ile Glu Asp
 65 70 75 80
 Ser Gly Pro Tyr Gln Ala Gln Pro Asn Ala Ile Leu Glu Lys Val Phe
 85 90 95
 Ile Ser Ile Thr Lys Tyr Pro Asp Lys Lys Arg Leu Glu Gly Leu Ser
 100 105 110
 Lys Gln Leu Asp Trp Asn Val Arg Lys Ile Gln Cys Trp Phe Arg His
 115 120 125

Arg Arg Asn Gln Asp Lys Pro Pro Thr Leu Thr Lys Phe Cys Glu Ser
 130 135 140
 Met *
 145

<210> 1794
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1794
 Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1 5 10 15
 Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys
 20 25 30
 Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly
 35 40 45
 His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp
 50 55 60
 Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys
 65 70 75 80
 Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg
 85 90 95
 Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser
 100 105 110
 Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro
 115 120 125
 Tyr Glu Glu Val Val Asn Arg Pro Pro Thr Pro Pro Pro Pro Tyr Ser
 130 135 140
 Ala Phe Gln Leu Gln Gln Gln
 145 150 151

<210> 1795
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 1795
 Met Ala Ala Leu Ala Ala Ala Lys Lys Val Trp Ser Ala Arg Arg
 1 5 10 15
 Leu Leu Val Leu Leu Phe Thr Pro Leu Ala Leu Leu Pro Val Val Phe
 20 25 30
 Ala Leu Pro Pro Lys Glu Gly Arg Cys Leu Phe Val Ile Leu Leu Met
 35 40 45
 Ala Val Tyr Trp Cys Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu
 50 55 60
 Leu Pro Ile Val Leu Phe Pro Phe Met Gly Ile Leu Pro Ser Asn Lys
 65 70 75 80
 Val Cys Pro Gln Tyr Phe Leu Asp Thr Asn Phe Leu Phe Leu Ser Gly
 85 90 95
 Leu Ile Met Ala Ser Ala Ile Glu Glu Trp Asn Leu His Arg Arg Ile
 100 105 110
 Ala Leu Lys Ile Leu Met Leu Val Gly Val Gln Pro Ala Arg Leu Ile

```

      115      120      125
Leu Gly Met Met Val Thr Thr Ser Phe Leu Ser Met Trp Leu Ser Asn
      130      135      140
Thr Ala Ser Thr Ala Met Met Leu Pro Ile Ala Asn Ala Ile Leu Lys
145      150      155      160
Ser Leu Phe Gly Gln Lys Glu Val Arg Lys Asp Pro Gln Pro Gly Glu
      165      170      175 176

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*

<210> 1796

<211> 98

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(98)

<223> Xaa = any amino acid or nothing

<400> 1796

```

Met His Pro Leu Pro Gly Tyr Trp Ser Cys Tyr Cys Leu Leu Leu Leu
 1      5      10      15
Phe Ser Leu Gly Val Gln Gly Ser Leu Gly Ala Pro Ser Ala Ala Pro
      20      25      30
Glu Gln Val His Leu Ser Tyr Pro Gly Glu Pro Gly Ser Met Thr Val
      35      40      45
Thr Trp Thr Thr Trp Val Pro Thr Arg Ser Glu Val Gln Phe Gly Leu
      50      55      60
Gln Pro Ser Gly Pro Leu Pro Leu Arg Ala Gln Gly Thr Phe Val Pro
65      70      75      80
Phe Val Asp Xaa Gly Ile Leu Arg Arg Lys Leu Tyr Ile His Arg Val
      85      90      95
Thr Leu
98

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<210> 1797

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1797

```

Met Phe Leu Trp Leu Phe Leu Ile Leu Ser Ala Leu Ile Ser Ser Thr
 1      5      10      15
Asn Ala Asp Ser Asp Ile Ser Val Glu Ile Cys Asn Val Cys Ser Cys
      20      25      30
Val Ser Val Glu Asn Val Leu Tyr Val Asn Cys Glu Lys Val Ser Val
      35      40      45
Tyr Arg Pro Asn Gln Leu Lys Pro Pro Trp Ser Asn Phe Tyr His Leu
      50      55      60
Asn Phe Gln Asn Asn Phe Leu Asn Ile Leu Tyr Pro Asn Thr Phe Leu
65      70      75      80
Asn Phe Ser His Ala Val Ser Leu His Leu Gly Asn Asn Lys Leu Gln
      85      90      95 96

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<210> 1798
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1798
 Met Arg Pro Ala Leu Ala Val Gly Leu Val Phe Ala Gly Cys Cys Ser
 1 5 10 15
 Asn Val Ile Phe Leu Glu Leu Leu Ala Arg Lys His Pro Gly Cys Gly
 20 25 30
 Asn Ile Val Thr Phe Ala Gln Phe Leu Phe Ile Ala Val Glu Gly Phe
 35 40 45
 Leu Phe Glu Ala Asp Leu Gly Arg Lys Pro Pro Ala Ile Pro Ile Arg
 50 55 60
 Tyr Tyr Ala Ile Met Val Thr Met Phe Phe Thr Val Ser Val Val Asn
 65 70 75 80
 Asn Tyr Ala Leu Asn Leu Asn Ile Ala Met Pro
 85 90 91

<210> 1799
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1799
 Met Arg Ser Leu Val Trp Val Leu Ile Gln Gln Leu Thr Pro Leu Tyr
 1 5 10 15
 Lys Gly Glu Thr Trp Thr Gln Thr Cys Thr Glu Asp His Val Thr Met
 20 25 30
 Lys Ala Glu Ile Arg Val Met Leu Leu Glu Ala Arg Glu Asp Cys Gln
 35 40 45
 Leu Met Thr Lys Arg Ser Gln Glu Thr Gly Leu Gln Arg Ile Leu Pro
 50 55 60
 Glu Gly Ser Gln Lys Glu Pro Thr Leu Thr Thr Pro *
 65 70 75 76

<210> 1800
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 1800
 Met Ser Leu Lys Met Leu Ile Ser Arg Asn Lys Leu Ile Leu Leu Leu
 1 5 10 15
 Gly Ile Val Phe Phe Glu Arg Gly Lys Ser Ala Thr Leu Ser Leu Pro
 20 25 30
 Lys Ala Pro Ser Cys Gly Gln Ser Leu Val Lys Val Gln Pro Trp Asn

```

      35      40      45
Tyr Phe Asn Ile Phe Ser Arg Ile Leu Gly Gly Ser Gln Val Glu Lys
   50      55      60
Gly Ser Tyr Pro Trp Gln Val Ser Leu Lys Gln Arg Gln Lys His Ile
   65      70      75      80
Cys Gly Gly Ser Ile Val Ser Pro Gln Trp Val Ile Thr Ala Ala His
      85      90      95
Cys Ile Ala Asn Arg Asn Ile Val Ser Thr Leu Asn Val Thr Ala Gly
   100      105      110
Glu Tyr Asp Leu Ser Gln Thr Asp Pro Gly Glu Gln Thr Leu Thr Ile
   115      120      125
Glu Thr Val Ile Ile His Pro His Phe Ser Thr Lys Lys Pro Met Asp
   130      135      140
Tyr Asp Ile Ala Leu Leu Lys Met Ala Gly Ala Phe Gln Phe Gly His
   145      150      155      160
Phe Val Gly Pro Ile Cys Leu Pro Glu Leu Arg Glu Gln Phe Glu Ala
      165      170      175
Gly Phe Ile Cys Thr Thr
      180      182

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<210> 1801
 <211> 202
 <212> PRT
 <213> Homo sapiens

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      <400> 1801
Met Thr Glu Ala Thr Phe Asp Thr Leu Arg Leu Trp Leu Ile Ile Leu
   1      5      10      15
Leu Cys Ala Leu Arg Leu Ala Met Met Arg Ser His Leu Gln Ala Tyr
      20      25      30
Leu Asn Leu Ala Gln Lys Cys Val Asp Gln Met Lys Lys Glu Ala Gly
      35      40      45
Arg Ile Ser Thr Val Glu Leu Gln Lys Met Val Ala Arg Val Phe Tyr
   50      55      60
Tyr Leu Cys Val Ile Ala Leu Gln Tyr Val Ala Pro Leu Val Met Leu
   65      70      75      80
Leu His Thr Thr Leu Leu Lys Thr Leu Gly Asn His Ser Trp Gly
      85      90      95
Ile Tyr Pro Glu Ser Ile Ser Thr Leu Pro Val Asp Asn Ser Leu Leu
   100      105      110
Ser Asn Ser Val Tyr Ser Glu Leu Pro Ser Ala Glu Gly Lys Met Lys
   115      120      125
His Asn Ala Arg Gln Gly Pro Ala Val Pro Pro Gly Met Gln Ala Tyr
   130      135      140
Gly Ala Ala Pro Phe Glu Asp Leu Gln Leu Asp Phe Thr Glu Met Pro
   145      150      155      160
Lys Cys Gly Asp Leu Ile Pro Arg Phe Gly Leu Pro Leu Arg Ile Gly
      165      170      175
Ser Asp Asn Gly Leu Ala Phe Val Ala Asp Leu Val Gln Lys Thr Ala
      180      185      190
Lys Trp Lys Gly Pro Gln Ile Val Val Leu
      195      200      202

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<210> 1802

<211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1802

```

Met Asn Asn Phe Arg Ala Thr Ile Leu Phe Trp Ala Ala Ala Ala Trp
 1           5           10           15
Ala Lys Ser Gly Lys Pro Ser Gly Glu Met Asp Glu Val Gly Val Gln
      20           25           30
Lys Cys Lys Asn Ala Leu Lys Leu Pro Val Leu Glu Val Leu Pro Gly
      35           40           45
Gly Gly Trp Asp Asn Leu Arg Asn Val Asp Met Gly Arg Val Met Glu
      50           55           60
Leu Thr Tyr Ser Asn Cys Arg Thr Thr Glu Asp Gly Gln Tyr Ile Ile
      65           70           75           80
Pro Asp Glu Ile Phe Thr Ile Pro Gln Lys Gln Ser Asn Leu Glu Met
      85           90           95
Asn Ser Glu Ile Leu Glu Ser Trp Ala Asn Tyr Gln Ser Ser Thr Ser
      100          105          110
Tyr Ser Ile Asn Thr Glu Leu Ser Leu Phe Ser Lys Val Asn Gly Lys
      115          120          125
Phe Ser Thr Glu Phe Gln Arg Met Lys Thr Leu Gln Val Lys Asp Gln
      130          135          140
Ala Ile Thr Thr Arg Val Gln Val Arg Asn Leu Val Tyr Thr Val Lys
      145          150          155          160
Ile Asn Pro Thr Leu Glu Leu Ser Ser Gly Phe Arg
      165          170          172

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<210> 1803
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1803

```

Met Ser Leu Arg Leu Gly Pro Ala Trp Arg His Leu Thr Cys Leu Gly
 1           5           10           15
Thr Lys His Ser Lys Ala Asn Ser Val Leu Ala Ser Gln His Ala Gly
      20           25           30
Phe Phe Val Ala Gln Gly Arg Trp Ala Ile His Arg Ala Phe Ser Ser
      35           40           45
Arg Thr Ser Pro Thr Pro Pro Arg Gly Pro Leu Leu Leu Pro Gly Arg
      50           55           60
His Pro Leu Leu Ser Arg Arg Arg Ala Gln Ala Ile Arg Ser Ser Thr
      65           70           75           80
Arg Pro Ser Leu Pro Ala His Leu Phe Lys Pro Ala Pro Ala Ile Ala
      85           90           95
Leu Ile Val Ser Pro Leu Arg Phe Pro Arg Arg Thr Ser Pro Cys His
      100          105          110
Leu Ser Gly Pro Pro Ala Pro Pro Cys Arg Thr Leu His Thr Leu Leu
      115          120          125
Arg Pro Val Cys Val Val Arg Arg Thr Pro Pro Val Phe Phe Thr Ser
      130          135          140
Phe Thr Pro Ala Arg Ala Ala Val Ala Ser His Pro Thr Pro
      145          150          155          158

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<210> 1804
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1804
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu
 100 102

<210> 1805
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1805
 Met Ala Asp Ser Val Leu Thr Leu Val Phe Thr Ser Cys Leu Leu Ser
 1 5 10 15
 Glu Leu Ser Leu Val Cys Ser Asp Phe Arg Pro Thr Pro Ile Ser Tyr
 20 25 30
 Gln Ser Arg Tyr Gly Ser Gly Asp Gly Trp Ile Arg Cys Lys Ser Glu
 35 40 45
 Val Arg Glu Thr Gln *
 50 53

<210> 1806
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1806
 Met Leu Ser Val Lys Arg Phe Arg Ala Met Val Met Phe Phe Met Ala
 1 5 10 15
 Met Val Ala Met Met Lys Asn Lys Cys Gln Gln Thr Asn Glu Ala Lys
 20 25 30
 Phe Cys Val His Met Tyr Leu His Phe Tyr Phe Ser Ser His Ser Ser
 35 40 45
 Ala Val Cys Ile Ser Ser Pro Leu
 50 55 56

<210> 1807
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1807
 Met Gln Ser Met Ile Asn Met Ile Val Ser Leu Leu Gly Leu Val Ala
 1 5 10 15
 Thr Val Thr Leu Ile Pro Ala Phe Arg Gly His Phe Ile Ala Ala Arg
 20 25 30
 Leu Gly Gly Gln Ser Leu Gly Lys Thr Ser Arg Gln His Met *
 35 40 45 46

<210> 1808
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Met Ala Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Glu Arg
 1 5 10 15
 Gly Met Phe Ser Ser Pro Ser Pro Pro Ala Leu Leu Glu Lys Val
 20 25 30
 Phe Gln Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys
 35 40 45
 Glu Trp Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe
 50 55 60
 Arg Gln Glu Leu Phe Arg Met Met Ala Val Ala Asp Thr Leu Gln
 65 70 75 80
 Arg Leu Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu
 85 90 95
 Pro Asp Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu
 100 105 110
 Gly Ser Asp Pro Thr Lys Gly
 115 119

<210> 1809
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Met Ser Arg Ser His Val Ala Leu Leu Gly Leu Ser Leu Leu Met
 1 5 10 15
 Leu Leu Leu Tyr Ala Gly Leu Pro Ser Pro Pro Glu Gln Thr Ser Cys
 20 25 30
 Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Val Ser Thr Pro Ala
 35 40 45
 Asn Ser Pro Met Phe Tyr Leu Glu Gly Leu Pro Leu His Leu Ala His

50 55 60
 Arg Val Asp Val Ile Pro Leu Ser Ser Leu Gly Pro Leu Val Ser Pro
 65 70 75 80
 Leu Arg Cys Gln Ala Leu Pro Pro Arg Leu Ser
 85 90 91

<210> 1810
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1810
 Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
 1 5 10 15
 Leu Ser Val Leu Ala Tyr Glu Gln Arg Pro Pro Leu Gly Pro Gly Thr
 20 25 30
 Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Lys Ala Ala Val Pro
 35 40 45
 Val Ala Met Gly Leu Gly Asp Gln Arg Tyr
 50 55 58

<210> 1811
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1811
 Met Ala Ser Ala Ser Phe Ser Leu Leu Ile Cys Gly Phe Leu Ala Ser
 1 5 10 15
 Leu Ser Leu Gln Arg Ile Glu Glu Leu Gly Leu Gly Leu Gly Leu Gly
 20 25 30
 Phe Gly Leu Arg Glu Cys Cys Gly Trp Phe Gly Leu Leu Ser Leu Val
 35 40 45 48

<210> 1812
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1812
 Met Lys Val Leu Leu Ala Val Ala Leu Ile Ala Arg Thr Val Phe Phe
 1 5 10 15
 Leu Leu Leu Ala Gly Pro Ser Ala Ala Asp Asp Lys Lys Lys Gly Pro
 20 25 30
 Lys Val Thr Val Lys Val Tyr Phe Asp Leu Arg Ile Gly Asp Glu Asp
 35 40 45
 Val Arg Arg Glu Ile Phe Gly Leu Phe Gly Lys Thr Ala Pro Lys Thr
 50 55 60

Glu Asp Asn Phe Val Ala Leu Ala Thr Gly Gln Lys Gly Phe Gly Tyr
 65 70 75 80
 Lys Asn Ser *
 83

<210> 1813
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1813
 Met Ala Ala Ala Asp Asp Thr Ile Leu Gly Phe Arg Ala Ala Leu Leu
 1 5 10 15
 Ile Leu Val Ala Ala Ala Ala Leu Ser Pro Lys Val Ala Cys Arg
 20 25 30
 Val Gly Thr Val Arg Arg Arg Glu Thr Pro Gln Pro Ser Ala
 35 40 45 46

<210> 1814
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1814
 Met Ile Ile Tyr Leu Thr Phe Pro Val Ala Met Phe Trp Val Ser Asn
 1 5 10 15
 Gln Ala Glu Trp Phe Glu Asp Asp Val Ile Gln Arg Lys Arg Glu Leu
 20 25 30
 Trp Pro Pro Glu Lys Leu Gln Glu Ile Glu Glu Phe Lys Glu Arg Leu
 35 40 45
 Arg Lys Arg Arg Glu Glu Lys Leu Leu Arg Asp Ala Gln Gln Asn Ser
 50 55 60 64
 *

<210> 1815
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1815
 Met Phe Lys Ser Lys Leu Leu Asn Phe Tyr Ile Phe Val Asn Cys Met
 1 5 10 15
 Asn Phe Leu Met Leu Ser Ile Ala Ser Phe Asn Pro Phe Trp Ser Glu
 20 25 30
 Ile Ile Val Cys Asn Ile Gln Phe Phe Tyr Tyr Thr Leu Ser Ser Arg
 35 40 45
 Val His Val Gln Asn Val Gln Val Cys Tyr Thr Gly Ile His Val Pro
 50 55 60
 Cys Trp Phe Ala Ala Pro Ile Asn Ser Ser Phe Thr Leu Gly Ile Ser

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65          70          75          80
Pro Asn Ala Ile Pro Phe Ile Val Pro His Pro Gln Thr Gly Pro Asn
          85          90          95
Val Arg Cys Ser
          100

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<210> 1816
<211> 115
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(115)
<223> Xaa = any amino acid or nothing

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<400> 1816
Met Phe Cys Phe Leu Val Ser Val Leu Tyr Ser Lys Ala Lys Leu Ala
 1          5          10          15
Ser Ala Cys Gly Gly Ile Ile Tyr Phe Leu Ser Tyr Val Pro Tyr Met
          20          25          30
Tyr Val Ala Ile Arg Glu Glu Val Ala His Asp Lys Ile Thr Ala Phe
          35          40          45
Glu Lys Cys Ile Ala Ser Leu Met Ser Thr Thr Ala Phe Gly Leu Gly
 50          55          60
Ser Lys Tyr Phe Ala Leu Tyr Glu Val Pro Gly Val Gly Ile Gln Trp
 65          70          75          80
His Thr Phe Ser Gln Ser Pro Val Glu Gly Glu Asp Leu Asn Leu Pro
          85          90          95
Pro Pro Pro Pro Met Met Pro Ala Pro Xaa Val Val Tyr Gly Ile Leu
          100          105          110
Thr Lys *
114

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<210> 1817
<211> 144
<212> PRT
<213> Homo sapiens

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```

<400> 1817
Met Val Leu Gly Leu Leu Val Gln Ile Trp Ala Leu Gln Glu Ala Ser
 1          5          10          15
Ser Leu Ser Val Gln Gln Gly Pro Asn Leu Leu Gln Val Arg Gln Gly
          20          25          30
Ser Gln Ala Thr Leu Val Cys Gln Val Asp Gln Ala Thr Ala Trp Glu
          35          40          45
Arg Leu Arg Val Lys Trp Thr Lys Asp Gly Ala Ile Leu Cys Gln Pro
 50          55          60
Tyr Ile Thr Asn Gly Ser Leu Ser Leu Gly Val Cys Gly Pro Gln Gly
 65          70          75          80
Arg Leu Ser Trp Gln Ala Pro Ser His Leu Thr Leu Gln Leu Asp Pro
          85          90          95
Val Ser Leu Asn His Ser Gly Ala Tyr Val Cys Trp Ala Ala Val Glu
          100          105          110

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```

Ile Pro Glu Leu Glu Glu Ala Glu Gly Asn Ile Thr Arg Leu Phe Val
      115                      120                      125
Asp Pro Asp Asp Pro Thr Gln Asn Arg Asn Arg Ile Ala Ser Phe Pro
      130                      135                      140                      144

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<210> 1818
<211> 115
<212> PRT
<213> Homo sapiens

```

```

<400> 1818
Met Gln Ala Asp Arg Gly Gly Val Leu Phe Leu Val Ala Leu Pro Gly
  1                      5                      10                      15
Leu Trp Glu Thr Val Leu Arg His Pro Gly Ala Ser Pro Glu Pro Val
      20                      25                      30
Ser Leu His Thr Gly Leu Ala Ala Glu Pro Leu Leu Gly Trp Arg Ala
      35                      40                      45
Glu Val Ala Thr Ala Ala Gly Leu Gln Asp Arg Arg Ile Gly Arg Arg
      50                      55                      60
Ser Leu Pro Ala Thr Leu Pro Pro Pro Phe Pro Gln Ala Gly Asp Leu
      65                      70                      75                      80
Arg Glu Ser Ile Leu Leu Leu Pro Cys Arg Glu Ser Arg Ser Thr Ser
      85                      90                      95
Trp Leu Ser Pro Tyr Trp Val Pro Glu Ile Pro Gly Thr Leu His Asp
      100                      105                      110
Arg Gly Arg
      115

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<210> 1819
<211> 70
<212> PRT
<213> Homo sapiens

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```

<400> 1819
Met Pro Trp Leu Leu Ser Ala Pro Lys Leu Val Pro Ala Val Ala Asn
  1                      5                      10                      15
Val Arg Gly Leu Ser Gly Cys Met Leu Cys Ser Gln Arg Arg Tyr Ser
      20                      25                      30
Leu Gln Pro Val Pro Glu Arg Arg Ile Pro Asn Arg Tyr Leu Gly Gln
      35                      40                      45
Pro Ser Pro Phe Thr His Pro His Leu Leu Arg Pro Asp Ser Asn Ser
      50                      55                      60
Cys Trp Glu Val Gly *
      65                      69

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<210> 1820
<211> 635
<212> PRT
<213> Homo sapiens

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<400> 1820

Met	Leu	Arg	Ser	Leu	Leu	Val	Tyr	Met	Leu	Phe	Leu	Leu	Val	Thr	Leu
1				5					10					15	
Leu	Ala	Ser	Tyr	Gly	Asp	Ala	Ser	Cys	His	Gly	His	Ala	Tyr	Arg	Leu
			20					25					30		
Gln	Ser	Ala	Ile	Lys	Gln	Glu	Leu	His	Ser	Arg	Ala	Phe	Leu	Ala	Ile
		35					40					45			
Thr	Arg	Ser	Glu	Glu	Leu	Trp	Pro	Trp	Met	Ala	His	Val	Leu	Leu	Pro
		50				55					60				
Tyr	Val	His	Gly	Asn	Gln	Ser	Ser	Pro	Glu	Leu	Gly	Pro	Pro	Arg	Leu
65					70					75					80
Arg	Gln	Val	Arg	Leu	Gln	Glu	Ala	Leu	Tyr	Pro	Asp	Pro	Pro	Gly	Pro
				85					90					95	
Arg	Val	His	Thr	Cys	Ser	Ala	Ala	Gly	Gly	Phe	Ser	Thr	Ser	Asp	Tyr
			100					105					110		
Asp	Val	Gly	Trp	Glu	Ser	Pro	His	Asn	Gly	Ser	Gly	Thr	Trp	Ala	Tyr
		115					120					125			
Ser	Ala	Pro	Asp	Leu	Leu	Gly	Ala	Trp	Ser	Trp	Gly	Ser	Cys	Ala	Val
130						135					140				
Tyr	Asp	Ser	Gly	Gly	Tyr	Val	Gln	Glu	Leu	Gly	Leu	Ser	Leu	Glu	Glu
145					150					155					160
Ser	Arg	Asp	Arg	Leu	Arg	Phe	Leu	Gln	Leu	His	Asn	Trp	Leu	Asp	Asn
				165					170					175	
Arg	Ser	Arg	Ala	Val	Phe	Leu	Glu	Leu	Thr	Arg	Tyr	Ser	Pro	Ala	Val
			180					185					190		
Gly	Leu	His	Ala	Ala	Val	Thr	Leu	Arg	Leu	Glu	Phe	Pro	Ala	Ala	Gly
		195					200					205			
Arg	Ala	Leu	Ala	Ala	Leu	Ser	Val	Arg	Pro	Phe	Ala	Leu	Arg	Arg	Leu
		210					215				220				
Ser	Ala	Gly	Leu	Ser	Leu	Pro	Leu	Leu	Thr	Ser	Val	Cys	Leu	Leu	Leu
225					230					235					240
Phe	Ala	Val	His	Phe	Ala	Val	Ala	Glu	Ala	Arg	Thr	Trp	His	Arg	Glu
				245					250					255	
Gly	Arg	Trp	Arg	Val	Leu	Arg	Leu	Gly	Ala	Trp	Ala	Arg	Trp	Leu	Leu
			260					265					270		
Val	Ala	Leu	Thr	Ala	Ala	Thr	Ala	Leu	Val	Arg	Leu	Ala	Gln	Leu	Gly
		275					280					285			
Ala	Ala	Asp	Arg	Gln	Trp	Thr	Arg	Phe	Val	Arg	Gly	Arg	Pro	Arg	Arg
		290				295					300				
Phe	Thr	Ser	Phe	Asp	Gln	Val	Ala	His	Val	Ser	Ser	Ala	Ala	Arg	Gly
305					310					315					320
Leu	Ala	Ala	Ser	Leu	Leu	Phe	Leu	Leu	Leu	Val	Lys	Ala	Ala	Gln	His
				325					330					335	
Val	Arg	Phe	Val	Arg	Gln	Trp	Ser	Val	Phe	Gly	Lys	Thr	Leu	Cys	Arg
			340					345					350		
Ala	Leu	Pro	Glu	Leu	Leu	Gly	Val	Thr	Leu	Gly	Leu	Val	Val	Leu	Gly
		355				360						365			
Val	Ala	Tyr	Ala	Gln	Leu	Ala	Ile	Leu	Leu	Val	Ser	Ser	Cys	Val	Asp
		370				375					380				
Ser	Leu	Trp	Ser	Val	Ala	Gln	Ala	Leu	Leu	Val	Leu	Cys	Pro	Gly	Thr
385					390					395					400
Gly	Leu	Ser	Thr	Leu	Cys	Pro	Ala	Glu	Ser	Trp	His	Leu	Ser	Pro	Leu
				405					410					415	
Leu	Cys	Val	Gly	Leu	Trp	Ala	Leu	Arg	Leu	Trp	Gly	Ala	Leu	Arg	Leu
			420					425					430		
Gly	Ala	Val	Ile	Leu	Arg	Trp	Arg	Tyr	His	Ala	Leu	Arg	Gly	Glu	Leu
		435					440						445		


```

Tyr Arg Pro Ala Trp Glu Pro Gln Asp Tyr Glu Met Val Glu Leu Phe
450                               455                               460
Leu Arg Arg Leu Arg Leu Trp Met Gly Leu Ser Lys Val Lys Glu Phe
465                               470                               475                               480
Arg His Lys Val Arg Phe Glu Gly Met Glu Pro Leu Pro Ser Arg Ser
485                               490                               495
Ser Arg Gly Ser Lys Val Ser Pro Asp Val Pro Pro Pro Ser Ala Gly
500                               505                               510
Ser Asp Ala Ser His Pro Ser Thr Ser Ser Ser Gln Leu Asp Gly Leu
515                               520                               525
Ser Val Ser Leu Gly Arg Leu Gly Thr Arg Cys Glu Pro Glu Pro Ser
530                               535                               540
Arg Leu Gln Ala Val Phe Glu Ala Leu Leu Thr Gln Phe Asp Arg Leu
545                               550                               555                               560
Asn Gln Ala Thr Glu Asp Val Tyr Gln Leu Glu Gln Gln Leu His Ser
565                               570                               575
Leu Gln Gly Arg Arg Ser Ser Arg Ala Pro Ala Gly Ser Ser Arg Gly
580                               585                               590
Pro Ser Pro Gly Leu Arg Pro Ala Leu Pro Ser Arg Leu Ala Arg Ala
595                               600                               605
Ser Arg Gly Val Asp Leu Ala Thr Gly Pro Ser Arg Thr Pro Leu Arg
610                               615                               620
Ala Lys Asn Lys Val His Pro Ser Ser Thr *
625                               630                               634

```

<210> 1821

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1821

```

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
1           5           10           15
Leu Thr Gly Leu Met Leu Ser Leu Tyr Thr Leu His Val Lys Ala Ala
20          25          30
Arg Ala Arg Asn Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Val
35          40          45
Ile Ser Cys Thr Arg Val Phe Tyr Ser Lys Leu Pro Ala Asp Thr Leu
50          55          60
Asp Leu Cys Pro Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
65          70          75          80
Cys Leu Pro Gly
84

```

<210> 1822

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1822

```

Met Ala Leu Asp Phe Val Asn Val Leu Leu Cys Gln Leu Ala Glu Val
1           5           10           15
Thr Leu Gly Val Leu Arg Glu Glu Gly Ala Ser Leu Leu Val Ala Leu

```

```

      20      25      30
Gly Ser Ala Leu Phe Pro Ser Ala Ala Val Gly Lys Gln Gly Ser
      35      40      45
Met Gly Val Thr Ser His Met Gln Cys Pro Val Cys Gln His Pro Arg
      50      55      60
Asp Val Leu Leu Ala Ser Pro Val Ser His Ser His Ala Cys Gln Pro
      65      70      75      80
Gln Pro Ala Gly Cys Ser Asn Cys His Leu Gly His Leu Thr Arg Ser
      85      90      95
Pro Pro Phe Gln Gly Leu Leu Pro Leu Leu Gln *
      100      105      107

```

<210> 1823
 <211> 74
 <212> PRT
 <213> Homo sapiens

```

      <400> 1823
Met Gly Val Val Leu Tyr Val Met Leu Cys Ala Ser Leu Pro Phe Asp
  1      5      10      15
Asp Thr Asp Ile Pro Lys Met Leu Trp Gln Gln Gln Lys Gly Val Ser
      20      25      30
Phe Pro Thr His Leu Ser Ile Ser Ala Asp Cys Gln Asp Leu Leu Lys
      35      40      45
Arg Leu Leu Glu Pro Asp Met Ile Leu Arg Pro Ser Ile Glu Glu Val
      50      55      60
Ser Trp His Pro Trp Leu Ala Ser Thr *
      65      70      73

```

<210> 1824
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1824
Met Ser Leu Ser Cys Thr Gly Phe Ala Leu Glu Lys Arg Cys Ala Gly
  1      5      10      15
Trp Val Trp Trp Leu Thr Pro Val Ile Pro Ala Leu Leu Gly Gly Gln
      20      25      30
Gly Arg Gln Ile Met Ile Met Val Arg Ser Leu Arg Pro Ala Gly Pro
      35      40      45
Thr Trp Gly Asn Leu Ser Thr Thr Lys Thr
      50      55      58

```

<210> 1825
 <211> 225
 <212> PRT
 <213> Homo sapiens

<400> 1825

```

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
 1          5          10          15
Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
          20          25          30
Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly
          35          40          45
Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys
          50          55          60
Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu
          65          70          75          80
Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
          85          90          95
Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
          100          105          110
Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
          115          120          125
Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
          130          135          140
Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
          145          150          155          160
Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu
          165          170          175
His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys
          180          185          190
Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp
          195          200          205
Ile Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln
          210          215          220          224

```

*

<210> 1826

<211> 119

<212> PRT

<213> Homo sapiens

<400> 1826

```

Met Tyr Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala Val Ser
 1          5          10          15
Leu Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu Tyr Leu
          20          25          30
Val Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu Ser Glu
          35          40          45
Tyr His Glu Arg Ala Arg Ser Gln Gly Gln Gln Leu Leu Gln Phe Gln
          50          55          60
Ala Glu Leu Asp Lys Leu His Lys Glu Ala Ser Leu Val Cys Gly Cys
          65          70          75          80
Pro Ser Leu Arg Glu Val Pro Ser Ser Ala Val Ser Arg Leu Glu Pro
          85          90          95
Pro Ser Ile Ala Gln Pro Leu Leu Ser Arg Leu Gln Leu Tyr Leu Ser
          100          105          110
Asp Pro Ser Ser Tyr Leu Val
          115          119

```

<210> 1827
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1827
 Met Lys Leu Met Arg Pro Leu Met Leu Leu Tyr Ile Ser Gln Leu Tyr
 1 5 10 15
 Met Leu Met Lys Arg Asn Ser Pro His Ile Gly Asp Cys Leu Ser Leu
 20 25 30
 Leu Phe Leu Gln Glu Lys Lys Gln Lys Glu Val Tyr Thr Leu Leu Ala
 35 40 45
 Met Met Gln Val Ser Phe Ile Leu Val *
 50 55 57

<210> 1828
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1828
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60
 Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95
 Arg Gln Val Tyr His Asn
 100 102

<210> 1829
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1829
 Met Arg Lys Ile Tyr Thr Thr Val Leu Phe Ala Asn Ile Tyr Leu Ala
 1 5 10 15
 Pro Leu Ser Leu Ile Val Ile Met Tyr Gly Arg Ile Gly Ile Ser Leu
 20 25 30
 Phe Arg Ala Ala Val Pro His Thr Gly Arg Lys Asn Gln Glu Gln Trp
 35 40 45
 His Val Val Ser Arg Lys Lys Gln Lys Ile Ile Lys Met Leu Leu Ile
 50 55 60
 Val Ala Leu Leu Phe Ile Leu Ser Trp Leu Pro Leu Trp Thr Leu Met
 65 70 75 80

Met Leu Ser Asp Tyr Ala Lys Pro
85 88

<210> 1830
<211> 120
<212> PRT
<213> Homo sapiens

<400> 1830
Met Lys Trp Arg Arg Lys Ser Ala Tyr Trp Lys Ala Leu Lys Val Phe
1 5 10 15
Lys Leu Pro Val Glu Phe Leu Leu Leu Thr Val Pro Val Val Asp
20 25 30
Pro Asp Lys Asp Asp Gln Asn Trp Lys Arg Pro Leu Asn Cys Leu His
35 40 45
Leu Val Ile Ser Pro Leu Val Val Val Leu Thr Leu Gln Ser Gly Thr
50 55 60
Tyr Gly Val Tyr Glu Ile Gly Gly Leu Val Pro Val Trp Val Val Val
65 70 75 80
Val Ile Ala Gly Thr Ala Leu Ala Ser Val Thr Phe Phe Ala Thr Ser
85 90 95
Asp Ser Gln Pro Pro Arg Leu His Trp Leu Phe Ala Phe Leu Gly Phe
100 105 110
Leu Thr Ser Ala Leu Trp Ile Asn
115 120

<210> 1831
<211> 64
<212> PRT
<213> Homo sapiens

<400> 1831
Met Phe Trp Arg Gly Trp Gly Ala Pro Leu Trp Ala Trp Pro Thr Leu
1 5 10 15
Leu Thr Pro Ile Lys Cys Ser Ser Leu Tyr Asp Ser Phe Phe Ser Pro
20 25 30
Thr Asp Ala Leu Gly Leu Glu Ser Leu Leu Gly Thr Ala Ser Leu Trp
35 40 45
Pro Leu Leu Leu Ser Leu Thr Glu Leu Pro Ala Leu Leu Gln Met *
50 55 60 63

<210> 1832
<211> 89
<212> PRT
<213> Homo sapiens

<400> 1832
Met Gly Ile Lys His Phe Ser Gly Leu Phe Val Leu Leu Cys Ile Gly
1 5 10 15
Phe Gly Leu Ser Ile Leu Thr Thr Ile Gly Glu His Ile Val Tyr Arg

```

      20      25      30
Leu Leu Leu Pro Arg Ile Lys Asn Lys Ser Lys Leu Gln Tyr Trp Leu
      35      40      45
His Thr Ser Gln Arg Leu His Arg Ala Ile Asn Thr Ser Phe Ile Glu
      50      55      60
Glu Lys Gln Gln His Phe Lys Thr Lys Arg Val Glu Lys Arg Ser Asn
      65      70      75      80
Val Gly Pro Arg Gln Leu Thr Val Trp
      85      89

```

<210> 1833
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1833
Met Phe Leu Val Ser Ile Ile Cys Val Thr Leu Phe Phe Pro Ile Val
  1      5      10      15
Ala Leu Phe Asp Leu Tyr Ala Thr Leu Ala His Cys Val Tyr Ala Phe
      20      25      30
Ser Thr Asp Ser Leu Leu Pro Ala Val Met Leu Thr Ala Leu Pro Arg
      35      40      45
Ser Leu Phe Phe Ser Ser Ser Leu Ile Leu Ser Ser
      50      55      60

```

<210> 1834
 <211> 62
 <212> PRT
 <213> Homo sapiens

```

      <400> 1834
Met Val Pro Ala Ala Gly Ala Leu Leu Trp Val Leu Leu Leu Asn Leu
  1      5      10      15
Gly Pro Arg Ala Ala Gly Ala Gln Gly Leu Thr Gln Thr Pro Thr Glu
      20      25      30
Met Gln Arg Val Met Leu Arg Phe Gly Cys Ser Val Ile Cys Cys Tyr
      35      40      45
Cys Ile Ser Val Arg Thr Gly Arg Ser Arg Glu Thr Gly *
      50      55      60      61

```

<210> 1835
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

      <400> 1835
Met Leu Leu Lys Ile Leu Lys Gly Cys Val Val Phe His His Leu Pro
  1      5      10      15
Cys Ser Thr Gln Val Tyr Lys Pro Ser Leu Gly Met Trp Gly Phe Leu
      20      25      30

```

Ser Pro Leu Trp Glu Val Val Phe Cys His Thr Pro Cys Phe Arg Ala
 35 40 45
 Gln Pro Gln Leu Asp Arg Ala Gly Ser Ser Phe Leu Ile Tyr Pro Ser
 50 55 60
 Pro His Ser Thr Ser Asn *
 65 70

<210> 1836
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1836
 Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
 1 5 10 15
 Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
 20 25 30
 Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met Gly Ala
 35 40 45
 Ser Met His Leu Arg Thr Pro Phe Thr Tyr Arg Val Pro Glu Asp Thr
 50 55 60
 Trp Gly Cys Phe Phe Val Cys Asn Leu Leu Tyr Ala Leu Gly Pro His
 65 70 75 80
 Leu Leu Ala Tyr Arg Cys Leu Gln Trp Pro Ala Phe Phe His Gln Pro
 85 90 95
 Pro Pro Ser Asp Pro Leu Ala Leu His Lys Lys Gln His *
 100 105 109

<210> 1837
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1837
 Met Leu Leu Leu Leu Thr Trp Pro Tyr Ile Leu Leu Gly Phe Leu Phe
 1 5 10 15
 Cys Ala Phe Val Val Val Asn Gly Gly Ile Val Ile Gly Asp Arg Ser
 20 25 30
 Ser His Glu Ala Cys Leu His Phe Pro Gln Leu Phe Tyr Phe Phe Ser
 35 40 45
 Phe Thr Leu Phe Phe Ser Phe Pro His Leu Leu Ser Pro Ser Lys Ile
 50 55 60
 Lys Thr Phe Leu Ser Leu Val Trp Lys Arg Arg Ile Leu Phe Phe Val
 65 70 75 80
 Val Thr Leu Val Ser Val Phe Leu Val Trp Asn
 85 90 91

<210> 1838
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 1838

```

Met Pro Ile Gly Leu Arg Gly Leu Met Ile Ala Val Met Leu Ala Ala
 1           5           10           15
Leu Met Ser Ser Leu Thr Ser Ile Phe Asn Ser Ser Ser Thr Leu Phe
           20           25           30
Thr Met Asp Ile Trp Arg Arg Leu Arg Pro Arg Ser Gly Glu Arg Glu
           35           40           45
Leu Leu Leu Val Gly Arg Leu Val Ile Val Ala Leu Ile Gly Val Ser
           50           55           60
Val Ala Trp Ile Pro Val Leu Gln Asp Ser Asn Ser Gly Gln Leu Phe
           65           70           75           80
Ile Tyr Met Gln Ser Val Thr Ser Ser Leu Ala Pro Pro Val Thr Ala
           85           90           95
Val Phe Val Leu Gly Val Phe Trp Arg Arg Ala Asn Glu Gln Gly Ala
           100          105          110
Phe Trp Gly Leu Ile Ala Gly Leu Val Val Gly Ala Thr Arg Leu Val
           115          120          125
Leu Glu Phe Leu Asn Pro Ala Pro Pro Cys Gly Glu Pro Asp Thr Arg
           130          135          140
Pro Ala Val Leu Gly Ser Ile His Tyr Leu His Phe Ala Val Ala Leu
           145          150          155          160
Phe Ala Leu Ser Gly Ala Val Val Val Ala Gly Ser Leu Leu Thr Pro
           165          170          175
Pro Pro Gln Ser Val Gln Ile Glu Asn Leu Thr Trp Trp Thr Leu Ala
           180          185          190
Gln Asp Val Pro Leu Gly Thr Lys Ala
           195          200 201

```

<210> 1839

<211> 130

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(130)

<223> Xaa = any amino acid or nothing

<400> 1839

```

Met Leu Phe Phe Leu Gln Ser Leu Phe Met Leu Ala Thr Val Val Leu
 1           5           10           15
Tyr Phe Ser His Leu Lys Glu Tyr Val Ala Ser Met Val Phe Ser Leu
           20           25           30
Ala Leu Gly Trp Thr Asn Met Leu Tyr Tyr Thr Arg Gly Phe Gln Gln
           35           40           45
Met Gly Ile Tyr Ala Val Met Ile Glu Lys Met Ile Leu Arg Asp Leu
           50           55           60
Cys Arg Phe Met Phe Val Tyr Ile Val Phe Leu Phe Gly Phe Ser Thr
           65           70           75           80
Ala Val Val Thr Leu Ile Glu Asp Gly Lys Asn Asp Ser Leu Pro Ser
           85           90           95
Glu Ser Thr Ser His Arg Trp Arg Gly Phe Ser Xaa Thr Pro Leu Xaa
           100          105          110
Leu Leu His Lys Leu Tyr Ser Thr Cys Leu Glu Leu Ser Asn Ser Thr
           115          120          125

```


Xaa Asp
130

<210> 1840
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1840
Met Asn Arg Val Met Arg Gly Leu Ala Ile Thr Thr Thr Cys Leu Leu
1 5 10 15
Ser Met Leu Gln Ala Ile Thr Ile Ser Pro Ser Ile Leu Trp Asn His
20 25 30
Ala Ala Val Gln Tyr Val His Gly His Ser Leu Val Gln Ala *
35 40 45 46

<210> 1841
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1841
Met Thr Ala Arg Leu Met Arg Ser Leu Leu Ala Ala Gln Leu Thr Phe
1 5 10 15
Val Tyr Arg Val Ala His Leu Met Asn Val Ala Gln Arg Ile Arg Gly
20 25 30
Asn Arg Pro Ile Lys Asn Glu Arg Leu Leu Ala Leu Leu Gly Asp Asn
35 40 45
Glu Lys Met Asn Leu Ser Asp Val Glu Leu Ile Pro Leu Pro Leu Glu
50 55 60
Pro Gln Val Lys Ile Arg Gly Ile Ile Pro Glu Thr Ala Thr Leu Phe
65 70 75 80
Lys Ser
82

<210> 1842
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1842
Met Val Ala Asn Met Phe Tyr Ile Val Val Ile Met Ala Leu Val Leu
1 5 10 15
Leu Ser Phe Gly Val Pro Arg Lys Ala Ile Leu Tyr Pro His Glu Ala
20 25 30
Pro Ser Trp Thr Leu Ala Lys Asp Ile Val Phe His Pro Tyr Trp Met
35 40 45
Ile Phe Gly Glu Val Tyr Ala Tyr Glu Ile Asp Val Cys Ala Asn Asp
50 55 60
Ser Val Ile Pro Gln Ile Cys Gly Pro Ser Thr Arg Pro

65

70

75

77

<210> 1843
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1843
 Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
 1 5 10 15
 Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
 20 25 30
 Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
 35 40 45
 Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
 50 55 60
 Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
 65 70 75 80
 Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
 85 90 95
 Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
 100 105 109

<210> 1844
 <211> 85
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(85)
 <223> Xaa = any amino acid or nothing

<400> 1844
 Met Thr Ile His Leu Cys Ser Asn Leu Met Cys His Phe Leu Gln Arg
 1 5 10 15
 Met Gly Thr Ile Leu Leu Cys Pro Asn Met Gln Pro His Gln Asn Leu
 20 25 30
 Thr Thr Val Ile Cys Ser Lys Gly Asn Leu Leu Arg Ala Val Lys Gly
 35 40 45
 Ser Lys Ser Leu Arg Asn Ala Arg Lys Tyr Pro Phe His His Pro Pro
 50 55 60
 Xaa Xaa Glu Pro Pro Asn Gly Gly Gln Thr Arg Xaa Gly Gly Ala Arg
 65 70 75 80
 Phe Lys Gln Pro Thr
 85

<210> 1845
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1845

```

Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
 1          5          10          15
Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr
          20          25          30
Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys
          35          40          45
Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
          50          55          60
Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala
          65          70          75          80
Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile
          85          90          95
Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr
          100          105          110

```

<210> 1846

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1846

```

Met Thr Glu Pro Pro Gly Ala Ser Ser His Leu Arg Gln Ala Leu Arg
 1          5          10          15
Cys Cys Gln Trp Leu Ala Gly Ile Pro Ser Gln Trp Val Leu Phe Trp
          20          25          30
Glu Val Leu Trp Lys Trp Val Leu Gln Thr Asp Ala Ala Trp Ser Pro
          35          40          45
Gly Phe Ser Pro Leu Pro Arg Gly Met Tyr Gln His Pro Ala Leu Pro
          50          55          60
Glu Met Pro Ser Pro Phe Leu Gly Ile Leu Arg Leu Glu Tyr Val Lys
          65          70          75          80
Leu Leu Gly Leu Cys Met Cys Leu Ser Thr Gly Ser Ser *
          85          90          93

```

<210> 1847

<211> 1300

<212> PRT

<213> Homo sapiens

<400> 1847

```

Met Ala Trp Lys Thr Leu Pro Ile Tyr Leu Leu Leu Leu Ser Val
 1          5          10          15
Phe Val Ile Gln Gln Val Ser Ser Gln Asp Leu Ser Ser Cys Ala Gly
          20          25          30
Arg Cys Gly Glu Gly Tyr Ser Arg Asp Ala Thr Cys Asn Cys Asp Tyr
          35          40          45
Asn Cys Gln His Tyr Met Glu Cys Cys Pro Asp Phe Lys Arg Val Cys
          50          55          60
Thr Ala Glu Leu Ser Cys Lys Gly Arg Cys Phe Glu Ser Phe Glu Arg
          65          70          75          80
Gly Arg Glu Cys Asp Cys Asp Ala Gln Cys Lys Lys Tyr Asp Lys Cys

```

					85												95
Cys	Pro	Asp	Tyr	Glu	Ser	Phe	Cys	Ala	Glu	Val	His	Asn	Pro	Thr	Ser		
			100					105					110				
Pro	Pro	Ser	Ser	Lys	Lys	Ala	Pro	Pro	Pro	Ser	Gly	Ala	Ser	Gln	Thr		
		115					120					125					
Ile	Lys	Ser	Thr	Thr	Lys	Arg	Ser	Pro	Lys	Pro	Pro	Asn	Lys	Lys	Lys		
	130					135						140					
Thr	Lys	Lys	Val	Ile	Glu	Ser	Glu	Glu	Ile	Thr	Glu	Glu	His	Ser	Val		
145					150					155					160		
Ser	Glu	Asn	Gln	Glu	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser		
			165						170						175		
Ser	Thr	Ile	Trp	Lys	Ile	Lys	Ser	Ser	Lys	Asn	Ser	Ala	Ala	Asn	Arg		
		180						185					190				
Glu	Leu	Gln	Lys	Lys	Leu	Lys	Val	Lys	Asp	Asn	Lys	Lys	Asn	Arg	Thr		
	195						200					205					
Lys	Lys	Lys	Pro	Thr	Pro	Lys	Pro	Pro	Val	Val	Asp	Glu	Ala	Gly	Ser		
	210					215					220						
Gly	Leu	Asp	Asn	Gly	Asp	Phe	Lys	Val	Thr	Thr	Pro	Asp	Thr	Ser	Thr		
225					230					235					240		
Thr	Gln	His	Asn	Lys	Val	Ser	Thr	Ser	Pro	Lys	Ile	Thr	Thr	Ala	Lys		
			245						250					255			
Pro	Ile	Asn	Pro	Arg	Pro	Ser	Leu	Pro	Pro	Asn	Ser	Asp	Thr	Ser	Lys		
		260						265					270				
Glu	Thr	Ser	Leu	Thr	Val	Asn	Lys	Glu	Thr	Thr	Val	Glu	Thr	Lys	Glu		
	275						280					285					
Thr	Thr	Thr	Thr	Asn	Lys	Gln	Thr	Ser	Thr	Asp	Gly	Lys	Glu	Lys	Thr		
	290					295					300						
Thr	Ser	Ala	Lys	Glu	Thr	Gln	Ser	Ile	Glu	Lys	Thr	Ser	Ala	Lys	Asp		
305					310					315					320		
Leu	Ala	Pro	Thr	Ser	Lys	Val	Leu	Ala	Lys	Pro	Thr	Pro	Lys	Ala	Glu		
			325						330					335			
Thr	Thr	Thr	Lys	Gly	Pro	Ala	Leu	Thr	Thr	Pro	Lys	Glu	Pro	Thr	Pro		
		340						345					350				
Thr	Thr	Pro	Lys	Glu	Pro	Ala	Ser	Thr	Thr	Pro	Lys	Glu	Pro	Thr	Pro		
	355						360					365					
Thr	Thr	Ile	Lys	Ser	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr		
	370					375					380						
Thr	Thr	Lys	Ser	Ala	Pro	Thr	Thr	Pro	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Thr	Thr
385					390					395						400	
Thr	Lys	Glu	Pro	Ala	Pro	Thr	Thr	Pro									

Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro
 565 570 575
 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
 580 585 590
 Ala Pro Thr Thr Thr Lys Lys Pro Ala Pro Thr Ala Pro Lys Glu Pro
 595 600 605
 Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys Lys Leu
 610 615 620
 Thr Pro Thr Thr Pro Glu Lys Leu Ala Pro Thr Thr Pro Glu Lys Pro
 625 630 635 640
 Ala Pro Thr Thr Pro Glu Glu Leu Ala Pro Thr Thr Pro Glu Glu Pro
 645 650 655
 Thr Pro Thr Thr Pro Glu Glu Pro Ala Pro Thr Thr Pro Lys Ala Ala
 660 665 670
 Ala Pro Asn Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
 675 680 685
 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Thr
 690 695 700
 Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr Thr Leu Lys Glu Pro
 705 710 715 720
 Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys Glu Leu Ala Pro Thr
 725 730 735
 Thr Thr Lys Glu Pro Thr Ser Thr Thr Ser Asp Lys Pro Ala Pro Thr
 740 745 750
 Thr Pro Lys Gly Thr Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
 755 760 765
 Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr
 770 775 780
 Thr Leu Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys
 785 790 795 800
 Glu Leu Ala Pro Thr Thr Thr Lys Gly Pro Thr Ser Thr Thr Ser Asp
 805 810 815
 Lys Pro Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys
 820 825 830
 Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Thr Thr Pro Glu
 835 840 845
 Thr Pro Pro Pro Thr Thr Ser Glu Val Ser Thr Pro Thr Thr Thr Lys
 850 855 860
 Glu Pro Thr Thr Ile His Lys Ser Pro Asp Glu Ser Thr Pro Glu Leu
 865 870 875 880
 Ser Ala Glu Pro Thr Pro Lys Ala Leu Glu Asn Ser Pro Lys Glu Pro
 885 890 895
 Gly Val Pro Thr Thr Lys Thr Pro Ala Ala Thr Lys Pro Glu Met Thr
 900 905 910
 Thr Thr Ala Lys Asp Lys Thr Thr Glu Arg Asp Leu Arg Thr Thr Pro
 915 920 925
 Glu Thr Thr Thr Ala Ala Pro Lys Met Thr Lys Glu Thr Ala Thr Thr
 930 935 940
 Thr Glu Lys Thr Thr Glu Ser Lys Ile Thr Ala Thr Thr Thr Gln Val
 945 950 955 960
 Thr Ser Thr Thr Thr Gln Asp Thr Thr Pro Phe Lys Ile Thr Thr Leu
 965 970 975
 Lys Thr Thr Thr Leu Ala Pro Lys Val Thr Thr Thr Lys Lys Thr Ile
 980 985 990
 Thr Thr Thr Glu Ile Met Asn Lys Pro Glu Glu Thr Ala Lys Pro Lys
 995 1000 1005
 Asp Arg Ala Thr Asn Ser Lys Ala Thr Thr Pro Lys Pro Gln Lys Pro
 1010 1015 1020
 Thr Lys Ala Pro Lys Lys Pro Thr Ser Thr Lys Lys Pro Lys Thr Met

1025 1030 1035 1040
 Pro Arg Val Arg Lys Pro Lys Thr Thr Pro Thr Pro Arg Lys Met Thr
 1045 1050 1055
 Ser Thr Met Pro Glu Leu Asn Pro Thr Ser Arg Ile Ala Glu Ala Met
 1060 1065 1070
 Leu Gln Thr Thr Thr Arg Pro Asn Gln Thr Pro Asn Ser Lys Leu Val
 1075 1080 1085
 Glu Val Asn Pro Lys Ser Glu Asp Ala Gly Gly Ala Glu Gly Glu Thr
 1090 1095 1100
 Pro His Met Leu Leu Arg Pro His Val Phe Met Pro Glu Val Thr Pro
 1105 1110 1115 1120
 Asp Met Asp Tyr Leu Pro Arg Val Pro Asn Gln Gly Ile Ile Ile Asn
 1125 1130 1135
 Pro Met Leu Ser Asp Glu Thr Asn Ile Cys Asn Gly Lys Pro Val Asp
 1140 1145 1150
 Gly Leu Thr Thr Leu Arg Asn Gly Thr Leu Val Ala Phe Arg Gly His
 1155 1160 1165
 Tyr Phe Trp Met Leu Ser Pro Phe Ser Pro Pro Ser Pro Ala Arg Arg
 1170 1175 1180
 Ile Thr Glu Val Trp Gly Ile Pro Ser Pro Ile Asp Thr Val Phe Thr
 1185 1190 1195 1200
 Arg Cys Asn Cys Glu Gly Lys Thr Phe Phe Phe Lys Asp Ser Gln Tyr
 1205 1210 1215
 Trp Arg Phe Thr Asn Asp Ile Lys Asp Ala Gly Tyr Pro Lys Pro Ile
 1220 1225 1230
 Phe Lys Gly Phe Gly Gly Leu Thr Gly Gln Ile Val Ala Ala Leu Ser
 1235 1240 1245
 Thr Ala Lys Tyr Lys Asn Trp Pro Glu Ser Val Tyr Phe Phe Lys Arg
 1250 1255 1260
 Gly Gly Ser Ile Gln Gln Tyr Ile Tyr Lys Gln Glu Pro Val Gln Lys
 1265 1270 1275 1280
 Cys Pro Gly Arg Arg Pro Ala Leu Asn Tyr Pro Val Tyr Gly Glu Thr
 1285 1290 1295
 Asp Thr Gly *
 1299

<210> 1848

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1848

Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln
 1 5 10 15
 Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys
 20 25 30
 Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys
 35 40 45
 Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala
 50 55 60
 Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro
 65 70 75 80
 Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly
 85 90 95
 Val Gln Ser Ala Pro Cys *
 100 102

<210> 1849
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1849
 Met Ser Arg Phe Leu Leu Pro Arg Glu Gly Cys Leu Leu Ile Val Phe
 1 5 10 15
 Met Leu Cys Glu Lys Thr Leu Pro Phe Leu Phe Thr Leu Lys Glu Tyr
 20 25 30
 Thr Phe Ile Pro Glu His Arg Thr Thr Asp Ile Asn Cys Val Asn Thr
 35 40 45
 His Glu
 50

<210> 1850
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1850
 Met Arg Leu His Ser Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His
 1 5 10 15
 Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu Met Leu Phe Ala Ile
 20 25 30
 Tyr Phe Leu Cys Ile Ile Thr Ser Thr Trp Asn Leu Arg Thr Gln Gln
 35 40 45
 Ser Lys Leu Val Leu Leu Leu Cys Gln Thr Val Ala Ile Met Tyr Pro
 50 55 60
 Ser Phe His Ser Phe Ile Leu Ile Met Gly Ser Arg Lys Leu Lys Gln
 65 70 75 80
 Thr Phe Leu Ser
 84

<210> 1851
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1851
 Met Ala Ala Cys Lys Leu Leu Lys His Leu Asn Gly Phe Ser Leu Leu
 1 5 10 15
 Leu Pro Arg Leu Glu Cys Asn Gly Val Ile Ser Val His Cys Asn Pro
 20 25 30
 Leu Pro Pro Gly Phe Lys Arg Phe Ser Cys Pro Ser Leu Leu Ser Ser
 35 40 45
 Trp Asp *
 50

<210> 1852
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1852
 Met Lys Thr Lys Cys Lys Pro Asn Ile Thr Phe Phe Asn Thr Ile Ile
 1 5 10 15
 Cys Phe Phe Leu Thr Phe Leu Phe Cys Ile Tyr Ile Asp Ser Leu Leu
 20 25 30
 Cys Thr Val Pro Lys Asn Pro Ala Gln Ala Val Gln Leu Asn Arg Asp
 35 40 45
 His Thr Lys Val His *
 50 53

<210> 1853
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1853
 Met Ala Val Val Arg Val Met Val Val Val Arg Val Thr Ala Val Val
 1 5 10 15
 Arg Val Met Val Val Val Arg Val Val Val Val Arg Val Met Val Val
 20 25 30
 Val Arg Ile Thr Ala Val Leu Arg Val Met Val Val Val Arg Ile Met
 35 40 45
 Ala Val Ile Arg Val Met Val Val Val Arg Val Thr Ala Ile Val Gly
 50 55 60
 Val Met Val Val Ile Arg Val Thr Ala Ile Val Ser Ile Met Val Val
 65 70 75 80
 Val Arg Val Met Val Val Val Arg Val Met Val Val Ala Arg Pro Met
 85 90 95
 Val Val Val Arg Val Met Ala Val Val Arg Val Met Ala Asp Ser Ala
 100 105 110
 Leu Arg Ala Ile Cys Ser Ser Ser Leu Asn Val Thr Phe Ser Leu Glu
 115 120 125 128
 *

<210> 1854
 <211> 190
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(190)
 <223> Xaa = any amino acid or nothing

<400> 1854


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Met Ser Cys Phe Gly Leu Leu Leu Gly Gly Leu Thr Pro Arg Val Leu
 1           5           10           15
Ser Thr Glu Glu Gln Leu Pro Pro Gly Phe Pro Ser Ile Asp Met Gly
          20           25           30
Pro Gln Leu Lys Val Val Glu Lys Ala Arg Thr Ala Thr Met Leu Cys
          35           40           45
Ala Ala Gly Gly Asn Pro Asp Pro Glu Ile Ser Trp Phe Lys Asp Phe
          50           55           60
Leu Pro Val Asp Pro Ala Thr Ser Asn Gly Arg Ile Lys Gln Leu Arg
          65           70           75           80
Ser Gly Glu Gln Arg Ala Gly Val Lys Gly Pro Cys Arg Pro Gln Asn
          85           90           95
Lys Arg Leu Val Arg Ser Gln His Ser Leu Leu Pro Trp Ala Trp Ala
          100          105          110
Pro Pro Gly Leu Ser Gly Gly Tyr Leu Val Gly Trp Ala Gly Ser Tyr
          115          120          125
Cys Arg Cys Ala Trp Leu Arg Glu Glu Ser Ser Trp Leu Ala Val Pro
          130          135          140
Leu Pro Ser Ser Asp Cys Gln Thr Pro Asp Phe Gly Pro Val Leu Pro
          145          150          155          160
Leu Pro Ala His Val Met Cys Gln Cys Gly Gly Leu Phe Lys Gly Ala
          165          170          175
Leu Trp Met Leu Thr Leu Leu Leu Pro Cys Xaa Leu Ala *
          180          185          189

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<210> 1855

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1855

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Met Val Val Ser Ala Trp Ile Gly Leu Glu Ala Thr Val Val Ala Ala
 1           5           10           15
Cys Leu Ala Leu Leu Gly Ser Val Val Arg Glu Thr Ser Thr Ser Ala
          20           25           30
Ser Pro Thr Pro Ala Ala Leu Arg Ala Ala Trp Thr Val Tyr Ser Ser
          35           40           45
Pro Met Thr Thr Cys Val Phe Ala Val Val Pro Leu Leu Ala Gly Thr
          50           55           60
Val Lys Pro Ser Ser Met Cys Val Pro Arg Cys Pro Ala *
          65           70           75           77

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<210> 1856

<211> 67

<212> PRT

<213> Homo sapiens

<400> 1856

```

Met Thr Asn Trp Met Leu Leu Leu Ala Ser Arg Ile Phe Gln Ser Leu
 1           5           10           15
Ala Ile Pro Lys Gln Leu Gly Leu Arg Arg Glu Met Pro Ser Gly Ser
          20           25           30
Pro Thr Thr Asn Ser Ser Ser Gly Cys Ile Arg Asn Leu Glu Tyr Ser

```

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          35          40          45
Thr Leu Met Gly Ser Glu Met Pro Met Ala Leu Ala Ala Glu Thr Trp
    50          55          60
Leu Leu *
    65  66

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<210> 1857
<211> 107
<212> PRT
<213> Homo sapiens

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<400> 1857
Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala Ile Ile Phe
 1          5          10          15
Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala Thr Leu Gly
          20          25          30
Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala Gln Glu Asn
          35          40          45
Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly Ile Thr Gly
    50          55          60
Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val Met Ile Leu
    65          70          75          80
Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly Val Phe Ala
          85          90          95
Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
          100          105          107

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<210> 1858
<211> 134
<212> PRT
<213> Homo sapiens

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<400> 1858
Met Ile Pro Pro Ala Ile Phe Trp Val Leu Ile Ile Phe Gly Trp Thr
 1          5          10          15
Leu Val Tyr Gly Phe Val Tyr Phe Thr Thr Gly Glu Thr Ile Met Asp
          20          25          30
Lys Leu Leu Arg Val Leu Tyr Trp Ile Leu Val Lys Thr Phe Phe Arg
          35          40          45
Glu Ile Ser Val Ser His Gln Glu Arg Ile Pro Lys Asp Lys Pro Val
    50          55          60
Met Leu Val Cys Ala Pro His Ala Asn Gln Phe Val Asp Gly Met Val
    65          70          75          80
Ile Ser Thr His Leu Asp Arg Lys Val Tyr Phe Val Gly Ala Ala Ser
          85          90          95
Ser Phe Arg Lys Tyr Lys Val Val Gly Leu Phe Met Lys Leu Met Ala
          100          105          110
Ser Ile Ile Ser Gly Glu Arg His Gln Asp Val Lys Lys Val Leu Thr
          115          120          125
Gly Met Ala Thr Glu Lys
    130          134

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<210> 1859
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1859
 Met Phe Tyr Val Lys Ala Glu Phe Leu Val Ser Phe Ser Cys Pro Trp
 1 5 10 15
 Leu Thr Ala Cys Ala Leu Leu Met Ser Cys Ser Trp Phe Leu Thr Leu
 20 25 30
 Thr Ile Leu Ser Val Lys Gly Gly Thr Pro Ala Gly Met Leu Asp Gln
 35 40 45
 Lys Lys Gly Lys Phe Ala Trp Phe Ser His Ser Thr Glu Thr His Gly
 50 55 60
 Asn Val Pro Leu Cys Ser Val Cys Val Asn Ala Cys Gly Cys Ile Pro
 65 70 75 80
 Asp *
 81

<210> 1860
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1860
 Met Pro Leu Ser Pro Leu Leu Phe His Leu Gly Pro Phe Pro Phe Lys
 1 5 10 15
 Ala Glu Ser Trp Leu Asn Phe Leu Pro Pro Phe Phe Pro Leu Leu
 20 25 30
 Pro Leu Leu Phe Leu Ala Lys Ala Glu Ile Gln Trp Ala *
 35 40 45

<210> 1861
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1861
 Met Thr Ile Phe Phe Ser Leu Leu Val Leu Ala Ile Cys Ile Ile Leu
 1 5 10 15
 Val His Leu Leu Ile Arg Tyr Arg Leu His Phe Leu Pro Glu Ser Val
 20 25 30
 Ala Val Val Ser Leu Gly Ile Leu Met Gly Ala Val Ile Lys Ile Ile
 35 40 45
 Glu Phe Lys Lys Leu Ala Asn Trp Lys Glu Glu Glu Met Phe Arg Pro
 50 55 60
 Asn Met Phe Phe Leu Leu Leu Pro Pro Ile Ile Phe Glu Ser Gly
 65 70 75 80
 Tyr Ser Leu His Lys Gly Asn Phe Phe Gln Asn Ile Gly Ser Ile Thr
 85 90 95
 Leu Phe Ala Val Phe Gly Thr Ala Ile Ser Ala Phe Val Val Gly Gly

		100						105					110				
Gly	Ile	Tyr	Phe	Leu	Gly	Gln	Ala	His	Val	Ile	Ser	Lys	Leu	Asn	Met		
		115					120					125		128			

<210> 1862
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1862

Met	Trp	Asp	Met	Leu	Pro	Trp	Gly	Ile	Thr	Trp	Val	Leu	Leu	Thr	Thr		
1				5					10					15			
Gln	Leu	His	Ser	Pro	Leu	Leu	Tyr	Val	Ile	Gly	Phe	Thr	Tyr	Trp	Val		
			20					25					30				
Cys	Lys	Gly	Asp	Arg	Asp	Ser	Tyr	Leu	Glu	Glu	Asn	Ser	Arg	Glu	Thr		
		35					40					45					
Ala	Ser	Val	Tyr	Thr	Ser	Val	Leu	Ser	*								
	50					55		57									

<210> 1863
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1863

Met	Thr	Gln	Asp	Leu	Val	Leu	Thr	Val	Pro	Phe	Met	Gly	Cys	Leu	Leu		
1				5					10					15			
Ile	Leu	Val	Asp	Gly	Leu	Lys	Pro	Asn	Arg	Pro	Ala	Tyr	Ile	Gln	Thr		
			20					25					30				
Gly	Ser	Gln	Ala	Thr	Gln	Ala	Gly	Val	Gln	Trp	His	Asn	Tyr	Gly	Ser		
		35					40					45					
Leu	*																
49																	

<210> 1864
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1864

Met	Val	Ala	Ser	Ala	Ala	Gln	Leu	Leu	Ser	His	Val	Cys	Leu	Gly	Gly		
1				5					10					15			
Leu	Gln	Leu	Leu	His	Ser	Phe	Leu	Ser	Ser	Leu	Gln	Leu	Pro	Ala	Leu		
			20					25					30				
Leu	Leu	Lys	Leu	Ala	Pro	Glu	Ala	Leu	Ala	Leu	Phe	Thr	Ser	Ile	Leu		
		35					40					45					
Lys	Ser	Ala	Leu	Val	Val	His	Asp	Phe	Ser	Thr	Gln	Leu	Glu	Leu	Glu		
	50					55					60						

Gly Val Glu Leu Leu Val Cys Ser Pro Leu Glu Ala Leu Gly Pro Leu
 65 70 75 80
 Leu Cys Leu Gly Glu Leu Gly Leu Gln Ala
 85 90

<210> 1865
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1865
 Met Arg Leu Gly Leu Leu Leu Leu Ala Arg His Trp Cys Ile Ala Gly
 1 5 10 15
 Val Phe Pro Gln Lys Phe Asp Gly Asp Ser Ala Tyr Val Gly Met Ser
 20 25 30
 Asp Gly Asn Pro Glu Leu Leu Ser Thr Ser Gln Thr Tyr Asn Gly Gln
 35 40 45
 Ser Glu Asn Asn Glu Asp Tyr Glu Ile Pro Pro Ile Thr Pro Pro Asn
 50 55 60
 Leu Pro Glu Pro Ser Leu Leu His Leu Gly Asp His Glu Ala Ser Tyr
 65 70 75 80
 His Ser Leu Cys His Gly Leu Thr Pro Asn Gly Leu Leu Pro Ala Tyr
 85 90 95
 Ser Tyr Gln Ala Met Asp Leu Pro Ala Ile Met Val Ser Asn Met Leu
 100 105 110
 Ala Gln Asp Ser His Leu Leu Ser Gly Gln Leu Pro Thr
 115 120 125

<210> 1866
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1866
 Met Cys Phe Leu Asn Lys Leu Leu Leu Leu Ala Ala Leu Asp Trp Leu
 1 5 10 15
 Phe Gln Ile Pro Thr Val Pro Glu Asp Leu Phe Phe Leu Glu Glu Gly
 20 25 30
 Pro Ser Tyr Ala Phe Glu Val Asp Thr Val Ala Pro Glu His Gly Leu
 35 40 45
 Asp Asn Ala Pro Val Val Asp Gln Gln Leu Leu Tyr Thr Cys Cys Pro
 50 55 60
 Tyr Ile Gly Glu Leu Arg Lys Leu Leu Ala Ser Trp Val Ser Gly Ser
 65 70 75 80
 Ser Gly Arg Ser Gly Gly Phe Met Arg Lys Ile Thr Pro Thr Thr Thr
 85 90 95
 Thr Ser Leu Gly Ala Gln Pro Ser Gln Thr Ser Gln Gly Leu Gln Ala
 100 105 110
 Gln Leu Ala Gln Ala Phe Phe His Asn Gln Pro Pro Ser Leu Arg Arg
 115 120 125
 Thr
 129

<210> 1867
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1867
 Met Met Arg Leu Glu Lys Phe Val Thr Trp Ser Val Met Ala Leu Gly
 1 5 10 15
 Trp Phe Val Phe Arg Gln Gln Asn Cys Trp Ala Leu Trp Ser Lys Ser
 20 25 30
 Val Leu Ile Ser Trp Ser Arg Pro Leu Thr Arg Ser Met Ser Asp Leu
 35 40 45
 Arg Arg Lys Arg Thr Ala His Glu Arg Ala Lys Glu Leu Tyr Ser Ser
 50 55 60
 Gly Glu Phe Ser Ser Gly Arg Lys Trp Gly Asp Asp Ala Pro Lys Glu
 65 70 75 80

<210> 1868
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1868
 Met Leu Val Trp Leu Tyr Gly Thr Ile Arg Trp Pro Ala Leu Gly Ala
 1 5 10 15
 Pro Arg Trp Trp Pro Trp Val Trp Pro Pro Gly Val Trp Ser Gly Ile
 20 25 30
 Glu Thr Pro Ser Ser Thr Pro Arg Ala Arg Ser Leu Arg Gly Thr Gly
 35 40 45
 Gly Ala Val Thr Arg Arg Thr Gly Ser Ser Phe Pro Trp Thr Thr Thr
 50 55 60
 Thr Arg Pro Ser Ser Trp Trp Thr Thr Ala His Thr Ala Ala Trp Gly
 65 70 75 80
 Ala Arg Thr Ala Ser Ala Cys Ala Trp Ser Pro Thr Ser His Ser Lys
 85 90 95
 Thr Arg Pro Trp Gln Gly Leu Glu Leu Thr Ser Leu Ala Cys Ser Ser
 100 105 110 112

*

<210> 1869
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Met Phe Leu Trp Val Lys Arg Leu Leu Phe Ala Ala Ser Leu Leu Ala
 1 5 10 15

```

Ser Asp Ser Ser Thr Ile Leu Cys Ser Arg Asp Leu Ile Leu Glu Ser
      20      25      30
Ile Ala Leu Ile Ile Ala Phe Cys Ser Leu Arg Ile Leu Pro Phe Ser
      35      40      45
Trp Ala Ser Ser Ser Cys Leu Cys Ile Met Phe Ser Ser Val Ser Leu
      50      55      60
Ser Ala Arg Ser Phe Phe Ile *
      65      70  71

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<210> 1870
 <211> 197
 <212> PRT
 <213> Homo sapiens

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<400> 1870
Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
 1      5      10      15
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser
      20      25      30
Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr
      35      40      45
Pro Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp
      50      55      60
Trp Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn
      65      70      75      80
Leu Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val
      85      90      95
Thr Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg
      100      105      110
Phe Ser Ser Leu Gln His Thr Thr Leu Lys Pro Pro Asp Val Thr Cys
      115      120      125
Ile Ser Lys Val Arg Ser Ile Gln Met Ile Val His Pro Thr Pro Thr
      130      135      140
Pro Ile Arg Ala Gly Asp Gly His Arg Leu Thr Leu Glu Asp Ile Phe
      145      150      155      160
His Asp Leu Phe Tyr His Leu Glu Leu Gln Val Asn Arg Thr Tyr Gln
      165      170      175
Met Val Ser Val Cys Cys Thr Leu Val Phe Leu Cys Leu Gly Ser Leu
      180      185      190
Phe Pro Pro Asn *
      195 196

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<210> 1871
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

<400> 1871
Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe
 1      5      10      15
Cys Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp
      20      25      30
Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg

```

35 40 45
 Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly
 50 55 60
 Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val
 65 70 75

<210> 1872
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1872
 Met Pro Phe Ser Thr Cys Thr Ala Leu Pro Ser Trp Ala Thr Leu Ser
 1 5 10 15
 Thr Trp Ser Trp Thr Pro Lys Val Ser Leu Ala Gly Glu Glu Arg Gly
 20 25 30
 Glu Thr Cys Gln Pro Asp Pro Phe Pro Pro His Pro Ser Cys Ser Val
 35 40 45
 Gly Arg Thr Pro Pro His Ser Ser Leu Gly Ser Pro Pro Thr Thr Leu
 50 55 60
 Phe Leu Ser Pro Leu Leu Arg Val Glu Ser Arg Gly Ala Lys Cys Val
 65 70 75 80
 Val Cys Cys *
 83

<210> 1873
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1873
 Met Cys Gly Ser Pro Glu Arg Leu Cys Val Arg Cys Ala Arg Val Cys
 1 5 10 15
 Ala Val Phe Met Arg Ala Leu Cys Val Val Cys Val Tyr Leu Arg Arg
 20 25 30
 Arg Ile Lys Tyr Glu Arg Phe Leu Gly Trp Glu Leu Arg Cys Lys Ile
 35 40 45
 Trp Gly *
 50

<210> 1874
 <211> 503
 <212> PRT
 <213> Homo sapiens

<400> 1874
 Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
 1 5 10 15
 Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
 20 25 30

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
 35 40 45
 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
 50 55 60
 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
 65 70 75 80
 Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
 85 90 95
 Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
 100 105 110
 Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
 115 120 125
 Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
 130 135 140
 Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
 145 150 155 160
 Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
 165 170 175
 Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
 180 185 190
 Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
 195 200 205
 Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
 210 215 220
 Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
 225 230 235 240
 Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
 245 250 255
 Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
 260 265 270
 Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
 275 280 285
 Gly Trp Leu Pro Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
 290 295 300
 Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
 305 310 315 320
 Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
 325 330 335
 Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
 340 345 350
 Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
 355 360 365
 Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
 370 375 380
 Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
 385 390 395 400
 Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser
 405 410 415
 Glu Asn Ser Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser
 420 425 430
 Asp Leu Arg Ser Gln Ile His Leu His Lys Tyr Val Val Val Tyr Phe
 435 440 445
 Arg Glu Ile Asp Thr Lys Asp Asp Tyr Asn Ala Leu Ser Val Cys Pro
 450 455 460
 Lys Tyr His Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu
 465 470 475 480
 His Val Lys Gln Gln Val Ser Ala Gly Lys Arg Ser Gln Ala Cys His
 485 490 495
 Asp Gly Cys Cys Ser Leu *

500 502

<210> 1875
 <211> 158
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(158)
 <223> Xaa = any amino acid or nothing

<400> 1875
 Met Xaa Pro Pro Thr Arg Pro Arg Thr Arg Gly Val Gly Ile Phe Tyr
 1 5 10 15
 Phe Val Ile Tyr Ile Ile Ile Ser Phe Leu Val Val Val Asn Met Tyr
 20 25 30
 Ile Ala Val Ile Leu Glu Asn Phe Ser Val Ala Thr Glu Glu Ser Thr
 35 40 45
 Glu Pro Leu Ser Glu Asp Asp Phe Glu Met Phe Tyr Glu Val Trp Glu
 50 55 60
 Lys Phe Asp Pro Asp Ala Thr Gln Phe Ile Glu Phe Ser Lys Leu Ser
 65 70 75 80
 Asp Phe Ala Ala Ala Leu Asp Pro Pro Leu Leu Ile Ala Lys Pro Asn
 85 90 95
 Lys Val Gln Leu Ile Ala Met Asp Leu Pro Met Val Ser Gly Asp Arg
 100 105 110
 Ile His Cys Leu Asp Ile Leu Phe Ala Phe Thr Lys Arg Val Leu Gly
 115 120 125
 Glu Ser Gly Glu Met Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe
 130 135 140
 Met Ser Ala Asn Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr
 145 150 155 158

<210> 1876
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1876
 Met Gly Asn Arg Ala Val Ile Ile Ala Arg Gln Leu Ser Ser Val His
 1 5 10 15
 Thr Leu Ile Cys Asn Phe Phe Trp Leu Leu Arg Thr Thr Gly Gly
 20 25 30
 Asp Leu Asp Ser Leu Lys Cys Ser Tyr Glu Ser Ile Gly Leu Asn Ser
 35 40 45
 Ile Ser Thr His Glu Phe Ile Cys Thr Trp Gln Arg Arg Leu Asn Phe
 50 55 60
 Ser Phe Val Met Ser Phe Lys Pro Leu Phe Arg Ala Ser Pro His Ser
 65 70 75 80
 Tyr Leu Leu Ile Ile Gly Ser Gln Leu His Glu Thr Phe Asn Leu Gly
 85 90 95
 Ser Ile Ser Ser Glu Glu Lys Cys Ser *
 100 105

<210> 1877
 <211> 241
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(241)
 <223> Xaa = any amino acid or nothing

<400> 1877
 Met Leu Trp Ala Leu Trp Pro Arg Trp Leu Ala Asp Lys Met Leu Pro
 1 5 10 15
 Leu Leu Gly Ala Val Leu Leu Gln Lys Arg Glu Lys Arg Gly Pro Leu
 20 25 30
 Trp Arg His Trp Arg Arg Glu Thr Tyr Pro Tyr Tyr Asp Leu Gln Val
 35 40 45
 Lys Val Leu Arg Ala Thr Asn Ile Arg Gly Thr Asp Leu Leu Ser Lys
 50 55 60
 Ala Asp Cys Tyr Val Gln Leu Trp Leu Pro Thr Ala Ser Pro Ser Pro
 65 70 75 80
 Ala Gln Thr Arg Ile Val Ala Asn Cys Ser Asp Pro Glu Trp Asn Glu
 85 90 95
 Thr Phe His Tyr Gln Ile His Gly Ala Val Lys Asn Val Leu Glu Leu
 100 105 110
 Thr Leu Tyr Asp Lys Asp Ile Leu Gly Ser Asp Gln Leu Ser Leu Leu
 115 120 125
 Leu Phe Asp Leu Arg Ser Leu Lys Cys Gly Gln Pro His Lys His Thr
 130 135 140
 Phe Pro Leu Asn His Gln Asp Ser Gln Glu Leu Gln Val Glu Phe Val
 145 150 155 160
 Leu Glu Lys Ser Gln Glu Pro Ala Ser Glu Val Ile Thr Asn Gly Val
 165 170 175
 Leu Gly Ala His Pro Trp Leu Arg Met Lys Gly Met Ile Leu Gly Glu
 180 185 190
 Gly Arg Ala Pro Arg Gln Gln His Gly Gln Ser Trp Glu Gly Gly Val
 195 200 205
 Gly Pro Ser Pro Leu Ser Xaa Xaa Xaa Asn Thr Gly Gly Lys Ile Val
 210 215 220
 Gly Phe Trp Glu Glu Met Ala Asn Gly Thr Gly Ala Pro Pro Arg Pro
 225 230 235 240
 Pro
 241

<210> 1878
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1878
 Met Leu Leu Met Leu Leu Phe Arg Cys Cys Ser Ser Lys Asp Leu Trp
 1 5 10 15
 Pro Val Leu Ile Ala His Leu Val Pro Gln Gly Gly Gln Glu Gly Asn

```

          20          25          30
Val Gly Glu Gln Thr Lys Gly Lys Ser Asn Arg Val Leu Pro Val Phe
          35          40          45
Leu *
49

```

```

<210> 1879
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1879
Met Cys Ser Ala Phe Ser Ser Phe Trp Trp Val Pro Pro Leu Ala Gly
 1          5          10          15
Ser Gly Val Lys Leu Gln Thr Phe Thr Ala Ser Val Thr Ala His Lys
          20          25          30
Arg Ser Thr Asp Pro Lys Ser Glu Gln Gln Leu Asp Leu Ser Gln Arg
          35          40          45
Thr Lys Glu Gln Ser Leu Thr Lys
50          55 56

```

```

<210> 1880
<211> 161
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(161)
<223> Xaa = any amino acid or nothing

```

```

<400> 1880
Met Pro Ser Ala Ser Leu Leu Val Asn Leu Leu Ser Ala Leu Leu Ile
 1          5          10          15
Leu Phe Val Phe Gly Glu Thr Glu Ile Arg Phe Thr Gly Gln Thr Glu
          20          25          30
Phe Val Val Asn Glu Thr Ser Thr Thr Val Ile Arg Leu Ile Ile Glu
          35          40          45
Arg Ile Gly Glu Pro Ala Asn Val Thr Ala Ile Val Ser Leu Tyr Gly
          50          55          60
Glu Asp Ala Gly Asp Phe Phe Asp Thr Tyr Ala Ala Ala Phe Ile Pro
          65          70          75          80
Ala Gly Glu Thr Asn Arg Thr Val Tyr Ile Ala Val Cys Asp Asp Asp
          85          90          95
Leu Pro Glu Pro Asp Glu Thr Phe Ile Phe His Leu Thr Leu Gln Lys
          100          105          110
Pro Ser Ala Asn Val Lys Leu Gly Trp Pro Arg Thr Val Thr Val Thr
          115          120          125
Ile Leu Ser Asn Gly Gln Met Ala Phe Trp Glu Phe Ile Phe Ile Leu
          130          135          140
Asn Ile Gly Leu Pro Pro Pro Ile Pro Pro Ser Gly Xaa Leu Lys Ala
145          150          155          160
Pro
161

```

<210> 1881
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1881
 Met Gly Ile Tyr Gln Met Tyr Leu Cys Phe Leu Leu Ala Val Leu Leu
 1 5 10 15
 Gln Leu Tyr Val Ala Thr Glu Ala Ile Leu Ile Ala Leu Val Gly Ala
 20 25 30
 Thr Pro Ser Tyr His Trp Asp Leu Ala Glu Leu Leu Pro Asn Gln Ser
 35 40 45
 His Gly Asn Gln Ser Ala Gly Glu Asp Gln Ala Phe Gly Asp Trp Leu
 50 55 60
 Leu Thr Ala Asn Gly Ser Glu Ile His Lys His Val His Phe Ser Ser
 65 70 75 80
 Ser Phe Thr Ser Ile Ala Ser Glu Trp Phe Leu Ile Ala Asn Arg Ser
 85 90 95
 Tyr Lys Val Ser Ala Ala Ser Ser Phe Phe Phe Ser Gly Val Phe Val
 100 105 110
 Gly Val Ile Ser Phe Gly Gln Leu Ser Asp Arg Phe Gly Arg Lys Lys
 115 120 125
 Val Tyr
 130

<210> 1882
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1882
 Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
 1 5 10 15
 Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser
 20 25 30
 Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
 35 40 45
 Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
 50 55 60
 Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys
 65 70 75 80
 Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys
 85 90 95
 Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys
 100 105 108

<210> 1883
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1883

```

Met Leu Phe Tyr Leu Val Ser Val Cys Leu Cys Val Ala Val Ile Val
 1           5           10           15
Ala Phe Gln Leu Thr Ala Phe Thr Phe Arg Lys Asn Leu Ala Ala Thr
          20           25           30
Ala Leu Leu Leu Ser Leu Phe Gly Tyr Ala Thr Leu Pro Trp Met Tyr
          35           40           45
Leu Met Ser Arg Ile Phe Ser Ser Ser Asp Val Ala Phe Ile Ser Tyr
          50           55           60
Val Ser Leu Asn Phe Ile Phe Gly Leu Cys Thr Met Leu Ile Thr Ile
          65           70           75           80
Met Pro Arg Leu Leu Ala Ile Ile
          85           88

```

<210> 1884

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1884

```

Met Cys Trp Ala Arg Cys Trp Thr Arg Trp Asn Thr Cys Thr Ile Trp
 1           5           10           15
Thr Ser Ser Thr Asp Pro Phe Arg Lys Cys Trp Met Ala Pro Glu Ala
          20           25           30
Leu Asn Phe Ser Phe Ser His Lys Ser Asp Ile Trp Ser Leu Gly Cys
          35           40           45
Ile Ile Leu Asp Met Thr Ser Cys Ser Phe Met Asp Gly Thr Glu Ala
          50           55           60
Met His Leu Arg Lys Ser Leu Arg Gln Ser Pro Gly Ser Leu Lys Ala
          65           70           75           80
Val Leu Lys Thr Met Glu Glu Lys Gln Ile Pro Asp Val Glu Thr Phe
          85           90           95
Arg Asn Leu Leu Pro Leu Met Leu Gln Ile Asp Pro Ser Asp Arg Ile
          100          105          110
Thr Ile Lys *
          115

```

<210> 1885

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1885

```

Met Ser Glu Arg Val Glu Arg Asn Trp Ser Thr Gly Gly Trp Leu Leu
 1           5           10           15
Ala Leu Cys Leu Ala Trp Leu Trp Thr His Leu Thr Leu Ala Ala Leu
          20           25           30
Gln Pro Pro Thr Ala Thr Val Leu Val Gln Gln Gly Thr Cys Glu Val
          35           40           45
Ile Ala Ala His Arg Cys Cys Asn Arg Asn Arg Ile Glu Glu Arg Ser
          50           55           60

```

Gln Thr Val Lys Cys Ser Cys Phe Ser Gly Gln Val Ala Gly Thr Thr
 65 70 75 80
 Arg Ala Lys Pro Ser Cys Val Asp Asp Leu Leu Leu Ala Ala His Cys
 85 90 95
 Ala Arg Arg Asp Pro Arg Ala Ala Leu Arg Leu Leu Leu Pro Gln Pro
 100 105 110
 Pro Ser Ser
 115

<210> 1886

<211> 357

<212> PRT

<213> Homo sapiens

<400> 1886

Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1 5 10 15
 Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
 20 25 30
 Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
 35 40 45
 Gly Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
 50 55 60
 Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
 65 70 75 80
 Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
 85 90 95
 Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
 100 105 110
 Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
 115 120 125
 Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
 130 135 140
 Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
 145 150 155 160
 Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln
 165 170 175
 Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala
 180 185 190
 Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala
 195 200 205
 Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser
 210 215 220
 Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His
 225 230 235 240
 Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr
 245 250 255
 Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala
 260 265 270
 Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu
 275 280 285
 Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val
 290 295 300
 Gly Gln Leu Arg Gln Asp Val Glu Asp Arg Leu His Ala Gln His Phe
 305 310 315 320
 Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys

Leu Lys Arg Leu His Lys Ala Gln Glu Ala Pro Gly Thr Asn Gly Ser
 325 330 335
 340 345 350
 Leu Val Leu Glu Arg
 355 357

```
<210> 1887
<211> 86
<212> PRT
<213> Homo sapiens
```

```

<400> 1887
Met Leu Cys Ser Arg Leu Gly Thr Thr Ala Ser Trp Arg Arg Leu Gly
  1                               10                      15
Ile Arg Ala Trp Ala Pro Leu Leu Leu Leu Phe Pro Trp Asp Trp His
      20                               25                      30
Phe Ile Leu Ser Phe Ser Ser Arg Pro Trp Ala Gly Thr Leu Leu Ala
      35                               40                      45
Pro His Asp Val Ile Met Gly Ser Ser Thr Phe Pro Gln Ser Cys Gln
      50                               55                      60
Ala Glu Ala Gly Pro Arg His Ala Trp Pro Thr Gly Arg Phe Ser Arg
      65                               70                      75                      80
Arg Leu Arg Arg Val *
      85

```

```
<210> 1888
<211> 48
<212> PRT
<213> Homo sapiens
```

```

      <400> 1888
Met Ser Val Arg Arg Ala Leu Thr Pro Ser Ala Leu Gly Leu Val Phe
 1          5          10          15
Ile Leu Gln Ile Phe Ala His Gly Leu Pro Gly Pro Gly Pro Cys His
 20          25          30
Leu Gly Pro Gly Ile Cys Leu Arg Ile Cys Gln Cys Ala Leu Asn *
 35          40          45          47

```

```
<210> 1889
<211> 79
<212> PRT
<213> Homo sapiens
```

<400> 1889															
Met	Ser	Val	Val	Met	Leu	Ser	Tyr	Leu	Leu	Ser	Ala	Phe	Phe	Ser	Gln
1				5					10					15	
Ala	Asn	Thr	Ala	Ala	Leu	Cys	Thr	Ser	Leu	Val	Tyr	Met	Ile	Ser	Phe
			20					25					30		
Leu	Pro	Tyr	Ile	Val	Leu	Leu	Val	Leu	His	Asn	Gln	Leu	Ser	Phe	Val
		35					40					45			

Asn Gln Thr Phe Leu Cys Leu Leu Ser Thr Thr Ala Phe Gly Gln Gly
 50 55 60
 Val Phe Phe Ile Thr Phe Leu Glu Gly Gln Glu Thr Gly Ile His
 65 70 75 79

<210> 1890
 <211> 251
 <212> PRT
 <213> Homo sapiens

<400> 1890
 Met Asn Val Ile Tyr Phe Pro Leu His Leu Phe Val Val Tyr Ser Arg
 1 5 10 15
 Ala Tyr Thr Ser Leu Val Leu Val Gly Cys Thr Asn Leu Cys Ala Val
 20 25 30
 Leu Phe Ala Arg Cys Leu Asp Asp His Leu Val Ser Leu Arg Met Ser
 35 40 45
 Gly Ser Arg Lys Glu Phe Asp Val Lys Gln Ile Leu Lys Ile Arg Trp
 50 55 60
 Arg Trp Phe Gly His Gln Ala Ser Ser Pro Asn Ser Thr Val Asp Ser
 65 70 75 80
 Gln Gln Gly Glu Phe Trp Asn Arg Gly Gln Thr Gly Ala Asn Gly Gly
 85 90 95
 Arg Lys Phe Leu Asp Pro Cys Ser Leu Gln Leu Pro Leu Ala Ser Ile
 100 105 110
 Gly Tyr Arg Arg Ser Ser Gln Leu Asp Phe Gln Asn Ser Pro Ser Trp
 115 120 125
 Pro Met Ala Ser Thr Ser Glu Val Pro Ala Phe Glu Phe Thr Ala Glu
 130 135 140
 Asp Cys Gly Gly Ala His Trp Leu Asp Arg Pro Glu Val Asp Asp Gly
 145 150 155 160
 Thr Ser Glu Glu Glu Asn Glu Ser Asp Ser Ser Ser Cys Arg Thr Ser
 165 170 175
 Asn Ser Ser Gln Thr Leu Ser Ser Cys His Thr Met Glu Pro Cys Thr
 180 185 190
 Ser Asp Glu Phe Phe Gln Ala Leu Asn His Ala Glu Gln Thr Phe Lys
 195 200 205
 Lys Met Glu Asn Tyr Leu Arg His Lys Gln Leu Cys Asp Val Ile Leu
 210 215 220
 Val Ala Gly Asp Arg Arg Ile Pro Ala His Arg Leu Val Leu Ser Ser
 225 230 235 240
 Val Ser Asp Tyr Phe Ala Gly Met Phe Thr Asn
 245 250 251

<210> 1891
 <211> 117
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(117)
 <223> Xaa = any amino acid or nothing

<400> 1891

```

Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu Phe Ala Xaa Trp Met
 1             5             10             15
Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu Arg Gln Asn Glu Gln
             20             25             30
Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr Glu Pro Tyr Leu Ala
             35             40             45
Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly Thr Thr Tyr Asp Phe
             50             55             60
Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys Pro Leu Cys Val Glu
             65             70             75             80
Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu Trp Ile Thr Ile Pro
             85             90             95
Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile Leu Leu Val Asn Leu
             100             105             110
Leu Val Ala Met Phe
             115             117

```

<210> 1892

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1892

```

Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1             5             10             15
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
             20             25             30
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
             35             40             45
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
             50             55             60
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
             65             70             75             80
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
             85             90             95
Asp Lys Gly Trp Asp Leu *
             100             102

```

<210> 1893

<211> 77

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(77)

<223> Xaa = any amino acid or nothing

<400> 1893

```

Met Leu Ala Ala Gly Val Thr Ser Ala Ala Gly Leu Ala Leu Ala Phe
 1             5             10             15
Ser Gly Asp Tyr Leu Lys Ala Phe Ile Asp Val Pro Thr Val Pro Ala
             20             25             30

```

Ala Leu Val Phe Leu Leu Leu Val Gly Leu Leu Asn Ala Arg Gly Ile
 35 40 45
 Lys Glu Ser Met Arg Ala Xaa Val Val Met Thr Val Val Glu Val Thr
 50 55 60
 Gly Leu Val Leu Val Val Val Leu Ala Leu Val Pro Gly
 65 70 75 77

<210> 1894
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1894
 Met Trp Ala Ala Ser Trp Cys Leu Ser Leu Trp Cys Cys Trp Val Trp
 1 5 10 15
 Ser Gly Thr Ser Glu Ser Ile Thr Ala Asn Ser Ser Gln His Leu Pro
 20 25 30
 Leu Ser Pro Trp Trp Glu Ser Pro Ser Ser Ser Ala Ser *
 35 40 45

<210> 1895
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 1895
 Met Thr Ala Trp Arg Arg Phe Gln Ser Leu Leu Leu Leu Gly Leu
 1 5 10 15
 Leu Val Leu Cys Ala Arg Leu Leu Thr Ala Ala Lys Gly Gln Asn Cys
 20 25 30
 Gly Gly Leu Val Gln Gly Pro Asn Gly Thr Ile Glu Ser Pro Gly Phe
 35 40 45
 Pro His Gly Tyr Pro Asn Tyr Ala Asn Cys Thr Trp Ile Ile Ile Thr
 50 55 60
 Gly Glu Arg Asn Arg Ile Gln Leu Ser Phe His Thr Phe Ala Leu Glu
 65 70 75 80
 Glu Asp Phe Asp Ile Leu Ser Val Tyr Asp Gly Gln Pro Gln Gln Gly
 85 90 95
 Asn Leu Lys Val Arg Leu Ser Gly Phe Gln Leu Pro Ser Ser Ile Val
 100 105 110
 Ser Thr Gly Ser Ile Leu Thr Leu Trp Phe Thr Thr Asp Phe Ala Val
 115 120 125
 Ser Ala Gln Gly Phe Lys Ala Leu Tyr Glu Gly Arg Arg Leu Val Val
 130 135 140
 Phe Cys Thr Cys Ile His Cys Pro Asn Asp Leu Ile His Ala Thr Leu
 145 150 155 160
 Asp *
 161

<210> 1896
 <211> 60

<212> PRT

<213> Homo sapiens

<400> 1896

```

Met Leu Ser Leu Pro Cys Gly Trp Leu Cys Thr Ala Ile Gly Leu Pro
 1           5           10           15
Thr Met Phe Gly Tyr Ile Ile Cys Gly Val Leu Leu Gly Pro Ser Gly
          20           25           30
Leu Asn Ser Ile Lys Val Arg Thr Lys Leu Asp Cys Phe Gly Ile Cys
          35           40           45
Leu Thr Glu Tyr Lys Lys Arg Ile His Glu Asp *
          50           55           59

```

<210> 1897

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1897

```

Met Leu Ile Val Gln Phe Ile Phe Glu Leu Val Ser Ser Ile Leu Val
 1           5           10           15
Ser Asn Val Lys Asp Met Leu Asp Phe Glu Ser Gly Phe Cys Ser Lys
          20           25           30
Ile Leu Ser Tyr Phe Phe Ser Ser Pro Arg Tyr Arg Leu Pro Phe Leu
          35           40           45           48
*
```

<210> 1898

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1898

```

Met Thr Trp Ala Gly Leu Phe Leu Phe Leu Arg Val Gly Ser Pro Asn
 1           5           10           15
Arg Lys Trp Ala Ala Ser Gly Gly Ser Gly Gly Asp Gly Val Asp Gly
          20           25           30
Glu Asp Trp Ser Leu Ala Arg Ser His Pro Gln Ser Pro Leu Leu Leu
          35           40           45
Leu Leu Leu *
          50  51

```

<210> 1899

<211> 112

<212> PRT

<213> Homo sapiens

<400> 1899

```

Met Ala Ile Pro Ser Val Val Ile Ser Gly Leu Ala Val Leu Leu Val
 1           5           10           15
Ala Met Ala Leu Pro Ser Leu Ser Gly Ser Glu Ala Ile Lys Ser Met
      20           25           30
Thr Ile Pro Gly Leu Val Val Pro Thr Val Val Arg Phe Met Ala Val
      35           40           45
Pro Gly Leu Ile Val Pro Ala Val Ala Lys Phe Thr Val Leu Pro Asp
      50           55           60
Leu Thr Val Pro Thr Glu Asp Lys Ser Leu Ala Val Pro Ser Leu Ile
      65           70           75           80
Ser Arg Ala Gly Asn Ser Val Pro Val Ser Ser Trp Asp Val Phe Gly
      85           90           95
Val Ala Lys Leu Ile Ala Lys Leu Gly Leu Leu Ala Ala Ile Val Ala
      100           105           110           112

```

<210> 1900
 <211> 128
 <212> PRT
 <213> Homo sapiens

```

<400> 1900
Met Arg Val Tyr Gly Thr Cys Thr Leu Val Leu Met Ala Leu Val Val
 1           5           10           15
Phe Val Gly Val Lys Tyr Val Asn Lys Leu Ala Leu Val Phe Leu Ala
      20           25           30
Cys Val Val Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser
      35           40           45
Ala Phe Asp Pro Pro Asp Ile Pro Val Cys Leu Leu Gly Asn Arg Thr
      50           55           60
Leu Ser Arg Arg Ser Phe Asp Ala Cys Val Lys Ala Tyr Gly Ile His
      65           70           75           80
Asn Asn Ser Ala Thr Ser Ala Leu Trp Gly Leu Phe Cys Asn Gly Ser
      85           90           95
Gln Pro Ser Ala Ala Cys Asp Glu Tyr Phe Ile Gln Asn Asn Val Thr
      100           105           110
Glu Ile Gln Gly Ile Pro Gly Ala Ser Gly Val Phe Leu Glu Asn
      115           120           125           128

```

<210> 1901
 <211> 68
 <212> PRT
 <213> Homo sapiens

```

<400> 1901
Met Glu Leu Leu Lys Leu Leu Thr Cys Phe Ser Glu Ala Met Tyr
 1           5           10           15
Leu Pro Pro Ala Pro Glu Ser Gly Ser Thr Asn Pro Trp Val Gln Phe
      20           25           30
Phe Cys Ser Thr Glu Asn Arg His Ala Leu Pro Leu Phe Thr Ser Leu

```

35 40 45
 Leu Asn Thr Val Cys Ala Tyr Asp Pro Val Glu Tyr Gly Ile Pro Tyr
 50 55 60
 Asn His Leu Tyr
 65 68

<210> 1902
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 1902
 Met Tyr Phe Ser Ser Leu Phe Pro Tyr Val Val Leu Ala Cys Phe Leu
 1 5 10 15
 Val Arg Gly Leu Leu Leu Arg Gly Ala Val Asp Gly Ile Leu His Met
 20 25 30
 Phe Thr Pro Lys Leu Asp Lys Met Leu Asp Pro Gln Val Trp Arg Glu
 35 40 45
 Ala Ala Thr Gln Val Phe Ser Ala Leu Gly Leu Gly Phe Gly Gly Val
 50 55 60
 Ile Ala Phe Ser Ser Tyr Asn Lys Gln Asp Asn Asn Cys His Phe Asp
 65 70 75 80
 Ala Ala Leu Val Ser Phe Ile Asn Phe Phe Thr Ser Val Leu Ala Thr
 85 90 95
 Leu Val Val Phe Ala Val Leu Gly Phe Lys Ala Asn Ile Met Asn Glu
 100 105 110
 Lys Cys Val Val Glu Asn Ala Glu Lys Ile Leu Gly Tyr Arg Val
 115 120 125 127

<210> 1903
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1903
 Met Trp Lys Phe Val Ser Pro Leu Cys Met Ala Val Leu Thr Thr Ala
 1 5 10 15
 Ser Ile Ile Gln Leu Gly Val Thr Pro Pro Gly Tyr Ser Ala Trp Ile
 20 25 30
 Lys Glu Glu Ala Ala Glu Arg Tyr Leu Tyr Phe Pro Asn Trp Ala Met
 35 40 45
 Ala Pro Leu Ile Thr Leu Ile Val Val Ala Thr Leu Pro Ile Pro Val
 50 55 60
 Val Phe Val Leu Arg His Phe His Leu Ile Cys Asp Gly Ser Asn Thr
 65 70 75 80
 Pro Cys Ile
 83

<210> 1904
 <211> 129
 <212> PRT

<213> Homo sapiens

<400> 1904

```

Met Lys Met Phe Val Ala His Gly Phe Tyr Ala Ala Lys Phe Val Val
 1          5          10          15
Ala Ile Gly Ser Val Ala Gly Leu Thr Val Ser Leu Leu Gly Ser Leu
          20          25          30
Phe Pro Met Pro Arg Val Ile Tyr Ala Met Ala Gly Asp Gly Leu Leu
          35          40          45
Phe Arg Phe Leu Ala His Val Ser Ser Tyr Thr Glu Thr Pro Val Val
          50          55          60
Ala Cys Ile Val Ser Gly Phe Leu Ala Ala Leu Leu Ala Leu Leu Val
          65          70          75          80
Ser Leu Arg Asp Leu Ile Glu Met Met Ser Ile Gly Thr Leu Leu Ala
          85          90          95
Tyr Thr Leu Val Ser Val Cys Val Leu Leu Leu Arg His His Pro Glu
          100          105          110
Ser Asp Ile Asp Gly Phe Val Lys Phe Leu Ser Glu Glu His Thr Cys
          115          120          125
Ser
129

```

<210> 1905

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1905

```

Met Gly Leu Leu Met Met Ile Leu Gly Gln Ile Phe Leu Asn Gly Asn
 1          5          10          15
Gln Ala Lys Glu Ala Glu Ile Trp Glu Met Leu Trp Arg Met Gly Val
          20          25          30
Gln Arg Glu Arg Arg Leu Ser Ile Phe Gly Asn Pro Lys Arg Leu Leu
          35          40          45
Ser Val Glu Phe Val Trp Gln Arg Tyr Leu Asp Tyr Arg Pro Val Thr
          50          55          60
Asp Cys Lys Pro Val Glu Tyr Glu Phe Phe Trp Gly Pro Arg Ser His
          65          70          75          80
Leu Glu Thr Thr Lys Met Lys Ile Leu Lys Phe Met Ala
          85          90          93

```

<210> 1906

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1906

```

Met Thr Ile Gly Phe Leu Phe Pro Met Leu Ser Ile Ala Tyr Leu Ile
 1          5          10          15
Ser Pro Arg Ser Asn Leu Gly Leu Phe Ile Lys Lys Pro Phe Ile Lys
          20          25          30
Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu Ser Met Leu Leu

```

35 40 45
 Leu Ala Ser Gln His Ile Val Arg Thr Asp Leu His Val Gln Gly Pro
 50 55 60
 Cys Ile
 65 66

<210> 1907
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1907
 Met Leu Gln Leu Gly Pro Phe Leu Tyr Trp Thr Phe Leu Ala Ala Phe
 1 5 10 15
 Glu Gly Thr Val Phe Phe Phe Gly Thr Tyr Phe Leu Phe Gln Thr Ala
 20 25 30
 Ser Leu Glu Asn Gly Lys Val Tyr Gly Asn Trp Thr Phe Gly Thr
 35 40 45
 Ile Val Phe Thr Val Leu Val Phe Thr Val Thr Leu Lys Leu Ala Leu
 50 55 60
 Asp Thr Arg Phe Trp Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser
 65 70 75 80
 Leu Ala Phe Tyr Val Phe Phe Ser Phe Phe Trp Gly Gly Ile Ile Trp
 85 90 95
 Pro Phe Leu Lys Gln Gln Arg Met Ala
 100 105

<210> 1908
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1908
 Met Gly Phe Leu Val Leu Lys Gln Pro Met Leu Val Ala Lys Val Phe
 1 5 10 15
 Pro Thr Leu Ala Gly Val Glu Ile Ile Leu Phe Thr Leu Lys Gly Phe
 20 25 30
 Pro Ile Leu Gly Ile Pro Val Gln Leu Pro Pro Thr Val *
 35 40 45

<210> 1909
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1909
 Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val Ile Leu Ala
 1 5 10 15
 Glu Asn Gly Phe Leu Pro Ile His Leu Leu Gly Leu Arg Glu Asp Trp
 20 25 30

Asp Asp Arg Trp Ile Asn Asp Val Glu Asp Ser Tyr Gly Gln Gln Trp
 35 40 45
 Thr Tyr Glu Gln Arg Lys Ile Val Glu Phe Thr Cys His Thr Ala Phe
 50 55 60
 Phe Val Ser Ile Val Gly Val Gln Trp Ala Asp Leu Val Ile Cys Lys
 65 70 75 80
 Thr Arg Arg Asn Ser Val Phe Gln Pro Gly Met Lys Asn Lys Ile Leu
 85 90 95
 Ile Phe Gly Leu Phe Glu Glu Thr Ala Leu Ala Ala Phe Leu Ser Tyr
 100 105 110
 Cys Pro Gly Met Gly Val Ala Leu Lys Met Tyr Pro Leu Lys Pro Thr
 115 120 125
 Trp Arg Val Cys Ala Phe Pro Tyr Ser Leu Leu
 130 135 139

<210> 1910

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1910

Met Glu Gly Trp Phe Ala Val Leu Ser Thr Ala Asn Asp Val Leu Gly
 1 5 10 15
 Ala Pro Trp Asn Trp Leu Tyr Phe Ile Pro Leu Leu Ile Ile Gly Ala
 20 25 30
 Phe Phe Val Pro Thr Leu Val Leu Gly Val Leu Ser Gly Asp Phe Ala
 35 40 45
 Lys Glu Arg Glu Arg Val Glu Thr Arg Arg Ala Phe Met Lys Leu Arg
 50 55 60
 Arg Gln Gln Gln Ile Glu Arg Glu Leu Asn Gly Tyr Arg Val Trp Ile
 65 70 75 80
 Ala Lys Ala Glu Glu Val Met Leu Ala Glu Glu Asn Leu Tyr Pro Ser
 85 90 95
 His Ala Arg Pro Val Asn Pro *
 100 103

<210> 1911

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1911

Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
 1 5 10 15
 Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
 20 25 30
 Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
 35 40 45
 Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu
 50 55 60
 Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
 65 70 75 80
 Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr

85 90 95
 Pro Phe Ile Ser Arg Thr Lys Ile Ala Gln Leu Lys Ser Gly Arg Asp
 100 105 110
 Ser Thr Val *
 115

<210> 1912
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1912
 Met Gln Leu Lys Thr Pro Ser Gly Gln Val Leu Ser Phe Cys Ile Leu
 1 5 10 15
 Gln Leu Phe Pro Phe Thr Ser Glu Ser Lys Arg Met Gly Val Ile Val
 20 25 30
 Arg Asp Glu Ser Thr Ala Glu Ile Thr Phe Tyr Met Lys Gly Ala Asp
 35 40 45
 Val Ala Met Ser Pro Ile Val Gln Tyr Asn Asp Trp Leu Glu Glu Glu
 50 55 60
 Cys Gly Asn Met Ala Arg Glu Gly Leu Arg Thr Leu Val Val Ala Lys
 65 70 75 80
 Lys Ala Leu Thr Glu Glu Gln Tyr Gln Asp Phe Glu Ser Arg Tyr Thr
 85 90 95
 Gln Ala Lys Leu Ser Met His Thr Lys
 100 105

<210> 1913
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1913
 Met Leu Val Tyr Val Trp Ser Arg Arg Ser Pro Arg Val Arg Val Asn
 1 5 10 15
 Phe Phe Gly Leu Leu Thr Phe Gln Ala Pro Phe Leu Pro Trp Ala Leu
 20 25 30
 Met Gly Phe Ser Leu Leu Leu Gly Asn Ser Ile Leu Val Asp Leu Leu
 35 40 45
 Gly Ile Ala Val Gly His Ile Tyr Tyr Phe Leu Glu Asp Val Phe Pro
 50 55 60
 Asn Gln Pro Gly Arg Gln Glu Ala Pro Ala Asp Pro Trp Ala Phe Leu
 65 70 75 80
 Lys Leu Leu Leu Gly Cys Pro Cys Arg Arg Pro Gln Leu Thr Cys Pro
 85 90 95
 Ser Leu Arg Asn Ser Gln Asp Pro Ile Cys His Pro Arg Ser Ser Asp
 100 105 110
 Pro His Pro Gly Ala Arg Pro Lys Arg Leu Leu Ala Ala Ser Ile Leu
 115 120 125
 Pro Met Thr Pro Thr Trp Gly Arg Lys Asn Pro Ser *
 130 135 140

<210> 1914
 <211> 556
 <212> PRT
 <213> Homo sapiens

<400> 1914
 Met Lys Lys Val Leu Leu Leu Leu Trp Lys Thr Val Leu Cys Thr Leu
 1 5 10 15
 Gly Gly Phe Glu Glu Leu Gln Ser Met Lys Ala Glu Lys Arg Ser Ile
 20 25 30
 Leu Gly Leu Pro Pro Leu Pro Glu Asp Ser Ile Lys Val Ile Arg Asn
 35 40 45
 Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln
 50 55 60
 Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp
 65 70 75 80
 Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser
 85 90 95
 Arg Glu Glu Glu Glu Glu Asn Asp Asp Asn Ser Leu Glu Gly Glu
 100 105 110
 Thr Phe Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His
 115 120 125
 Pro Gln Thr Asp Arg Leu Thr Cys Pro Lys Gly Leu Pro Trp Ala Pro
 130 135 140
 Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg Ser
 145 150 155 160
 Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val Gly
 165 170 175
 Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His Lys
 180 185 190
 Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Tyr Leu
 195 200 205
 Arg Ser Pro Leu Ser Gly Gly Glu Glu Val Glu Gln Val Pro Ala
 210 215 220
 Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile
 225 230 235 240
 Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys
 245 250 255
 Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro
 260 265 270
 Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His
 275 280 285
 Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu Leu
 290 295 300
 Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln
 305 310 315 320
 His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn
 325 330 335
 Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu
 340 345 350
 Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu
 355 360 365
 Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe
 370 375 380
 Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys
 385 390 395 400
 His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu

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      405      410      415
Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu
      420      425      430
Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys
      435      440      445
Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg
      450      455      460
Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro Trp
      465      470      475      480
Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg Phe
      485      490      495
Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu Pro
      500      505      510
Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu Pro
      515      520      525
Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val Phe
      530      535      540
Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln *
      545      550      555

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<210> 1915

<211> 212

<212> PRT

<213> Homo sapiens

<400> 1915

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Met Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys
  1      5      10      15
Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr
      20      25      30
Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val
      35      40      45
Phe Trp Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro Val Val Phe
      50      55      60
Met Gly Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys Gly Val Ile Gly
      65      70      75      80
Ser Tyr Ser Val Val Leu Ala Ile Asp Ser Tyr Trp Ser Thr Ser Leu
      85      90      95
Ser Tyr Ile Thr Leu Asn Val Leu Lys Arg Ala Leu Asn Lys Asp Phe
      100      105      110
His Arg Ala Phe Thr Asn Val Pro Phe Gln Thr Asn Asp Phe Ile Ile
      115      120      125
Leu Ala Val Trp Gly Met Leu Ala Val Ser Gly Ile Thr Leu Gln Ile
      130      135      140
Arg Arg Glu Arg Gly Arg Pro Phe Phe Pro Pro His Pro Tyr Lys Leu
      145      150      155      160
Trp Lys Gln Glu Arg Glu Arg Arg Val Thr Asn Ile Leu Asp Pro Ser
      165      170      175
Tyr His Ile Pro Pro Leu Arg Glu Arg Leu Tyr Gly Arg Leu Thr Gln
      180      185      190
Ile Lys Gly Leu Phe Gln Lys Glu Gln Pro Ala Gly Glu Arg Thr Pro
      195      200      205
Leu Leu Leu *
      210 211

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<210> 1916
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1916
 Met Cys Thr Pro Val Arg Val Ser Ile Val Cys Val Met Gly Ala Val
 1 5 10 15
 Gly Ala Val Trp Thr Ala Pro Leu Pro Leu Pro Trp Ala Pro Thr Pro
 20 25 30
 Ser Ile His Leu Arg Glu Glu Gly Ala Ala Phe Pro Phe Cys Gly Val
 35 40 45
 Cys Val Leu Arg Pro Arg Arg Ser Lys Trp Arg Ser Trp Asp Val Asn
 50 55 60
 Leu Gly Pro Arg Arg Arg Gly Leu Leu Gly Cys Gly Pro Cys Pro Ser
 65 70 75 80
 Gly Lys Pro Arg Val His Leu Gln Arg Thr Arg Ser Gly Ala Gly Ala
 85 90 95
 Glu Ala Gly Gly Leu Pro Thr Arg Gly Ser Met Arg Gly Cys Pro Phe
 100 105 110
 Leu Gly Ser Ser Ala Ala Lys Cys Ser Leu Leu Leu Arg Pro Pro Ser
 115 120 125
 Arg Gly Glu Ala Ser Pro Trp Leu Pro Glu Phe Met Thr His Pro Val
 130 135 140
 His His Gln Gln Leu Ala Cys Gly Ser Gly Trp Leu Gly Thr Lys His
 145 150 155 160
 Pro Gly Gly Thr Cys Ala Leu Gly Ser Thr Met *
 165 170 171

<210> 1917
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1917
 Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
 1 5 10 15
 His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
 20 25 30
 Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
 35 40 45
 Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
 50 55 60
 Leu Ser Ile Val Ser Ile Ser *
 65 70 71

<210> 1918
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1918
 Met Thr Ser Leu Met Phe Leu Trp Arg Ala Leu Leu Glu Thr Ile Ser
 1 5 10 15
 Thr Asn Met Thr Phe Ser Leu Pro Leu Ala Ala Val Val Arg Ala Trp
 20 25 30
 Met Lys Pro Thr Gly Ser Gly Met Phe Leu Tyr Gln Tyr Leu Pro Val
 35 40 45
 Val Lys Ser Ser Gln Ala Val Phe Pro Val Val Ile Glu Ile Ser Ser
 50 55 60
 Ile Ser Gly Ser Ile Leu Pro Lys Phe Pro Met Leu Ser Leu Met Ser
 65 70 75 80
 Leu His Thr Gly Ser Ile Ile *
 85 87

<210> 1919
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1919
 Met Leu Gly Pro Phe Ser Ser Leu Phe Leu Leu Leu Trp Ser Phe Thr
 1 5 10 15
 Arg Phe Cys Ile His Phe Tyr Leu Ala Pro Ser His His Cys Leu Thr
 20 25 30
 Ala Ala Leu Leu Pro Phe Ser Leu His Pro Leu Tyr Ser Ser Leu Ser
 35 40 45
 Leu Ser Arg Ser Gln *
 50 53

<210> 1920
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1920
 Met His Pro Pro Leu Thr Pro Pro Thr Pro Leu Cys Leu Trp Leu Arg
 1 5 10 15
 Leu Leu Lys Ala Gln Ile Leu Ser Tyr Pro Val Pro Arg Phe Glu Thr
 20 25 30
 His Ser Leu Ile Ser Arg Cys Ser Gln Val Pro Pro Thr Phe Leu Trp
 35 40 45
 Asp Ile Lys Lys Gly Val Arg Gly Gln Arg Glu Pro Ser Gly Pro Leu
 50 55 60
 Leu Pro Tyr Thr Leu His Cys Pro Phe Ser Pro His Gln Asn Ala Gln
 65 70 75 80
 Arg Arg Cys Asp Asp Ala Thr Glu Asp Tyr Ala Thr Trp Ser Asn Arg
 85 90 95
 Ser Gly Gln His Asp Gln Leu Ser Arg Gly Cys Leu Leu Pro Phe Leu
 100 105 110
 Leu *
 113

<210> 1921
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1921
 Met Val Tyr Leu Tyr Ile Tyr Leu Asp Leu Phe Gln Phe Leu Ile Thr
 1 5 10 15
 Val Leu Gln Gly Phe Leu Phe Val Phe Glu Met Glu Phe His Ser Cys
 20 25 30
 Arg Pro Gly Gln Ser Ala Met Met Gln Ser Gln Leu Ala Ala Thr Ser
 35 40 45
 Ala Ser Arg Val Gln Val Ile Leu Val Val Ser Ala Pro Gln Glu Ala
 50 55 60
 Gly Thr Thr Gly Ala Arg His His Val Gln Leu Ile Phe Val Phe Leu
 65 70 75 80
 Leu Glu Met Gly Phe Cys His Val Gly Gln Ala Gly Leu Glu Leu Leu
 85 90 95
 Asn Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Arg
 100 105 110
 Gly Val Asn His Cys Ala Pro Pro Ile Asn Ser Leu Leu Thr Phe Gln
 115 120 125
 Ser Phe Ile His Leu Glu Cys Ile Val Ile *
 130 135 138

<210> 1922
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1922
 Met Trp Leu Ser Phe Pro Lys Leu Phe Ile Pro Leu Ser Ile Phe Leu
 1 5 10 15
 Val Phe Leu Leu Met Ala Asn Ser Phe Arg Ile Phe Lys Ser Lys Asn
 20 25 30
 Ile Phe Ile Ser Leu Leu Phe Trp Asn Asp Thr Phe Ala Gly Cys Ile
 35 40 45
 Phe Leu Thr *
 50 51

<210> 1923
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1923
 Met Val Ser His Cys Ile Phe Cys Asn Leu Leu Phe Ser Leu Leu Thr
 1 5 10 15
 Val Phe Leu Arg Leu Leu His Val Asp Thr Cys His Leu Phe Ile Arg
 20 25 30
 Phe Asn Cys Cys Lys Ile Phe Phe Cys Gln Asp Ile Leu Gln Leu Ile

35 40 45
 Tyr Leu Leu Phe Phe Leu Trp Thr Phe Lys Leu Phe Ser Gly Phe Thr
 50 55 60
 Leu Lys Ile Ile Gln Gln *
 65 70

<210> 1924
 <211> 187
 <212> PRT
 <213> Homo sapiens

<400> 1924
 Met Leu Phe Ile Gln Tyr Leu Leu Pro Cys Leu Leu Leu Ser Ala Glu
 1 5 10 15
 Leu Ser Gly Thr Phe Phe Leu Tyr Asn Thr Cys His Leu His Val Pro
 20 25 30
 Cys Cys His Ser Leu Val Pro Thr Gly Pro Pro Ser Leu Ser Ser His
 35 40 45
 Phe Gln Ser Arg Gly Leu Cys Ala Pro Cys Ala Ser Ile Ala Asp Ser
 50 55 60
 Gly Ile Ala Asp Ser Gly Gly Asn Asn Leu Asn Phe Val Gly Ala Gly
 65 70 75 80
 Gly Val Ala Ser Gly His Leu Leu Ser Pro Leu Leu Gly Pro Gln Ser
 85 90 95
 Ser Pro Cys Pro His Cys Pro Arg Gly Gly Arg Leu Pro Ser Gln Pro
 100 105 110
 Leu Pro Leu Cys Ser Ala Arg Ser Trp Ala Gln Glu Ala Leu Arg Leu
 115 120 125
 Pro Ser Ser Ala Gln Leu Cys Pro Cys His Pro Leu Pro Arg Gly Leu
 130 135 140
 Gly Pro Val Ser Pro Ser Gly Leu Leu Ala Asn Ile Ser Tyr Arg His
 145 150 155 160
 Asn Trp Leu Leu Gly Ser Trp Pro Gly Trp Leu Ile Trp Gly Gly Lys
 165 170 175
 Asn Arg Gly Gly Leu Asn Ser Phe Leu Ala *
 180 185 186

<210> 1925
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1925
 Met Leu Ser Phe Leu Val Val Phe Gln Leu Val Leu Leu Arg Phe Ser
 1 5 10 15
 Gly Arg His Ser His His Gln Leu Ile Thr Ile Thr Phe Pro Leu Phe
 20 25 30
 Gln Trp Leu Tyr Phe Phe Phe Phe Met Phe Phe Cys Thr Gly Trp Lys
 35 40 45
 Phe *
 49

<210> 1926
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1926
 Met Gly Arg Tyr Arg Cys Ala Ser Leu Leu Phe Cys Phe Leu Leu Leu
 1 5 10 15
 Phe Phe Phe Phe Trp Leu Trp Val Arg Asp Ile Phe Lys Leu Ala Gln
 20 25 30
 Lys Gly Arg Gly Trp Ser Leu Asp Pro His Val Ser Ile Thr *
 35 40 45 46

<210> 1927
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1927
 Met Ala Thr Gly Leu Leu Ala Phe Leu Gly Leu Ala Ala Gly Gly Gln
 1 5 10 15
 Thr Leu Cys Pro Ala Gly Glu Leu Pro Gly His Ala Arg Ala Gln Ala
 20 25 30
 Ser Gly Ala Pro Gly Ser Val Leu Ile Ala Val Pro Gly Arg Arg Arg
 35 40 45
 Val His Thr Cys Gly Pro Gly Pro Ala Ala Pro Ser Thr Arg Gly Glu
 50 55 60
 Cys Pro Pro Pro Ala Leu Gly His Thr Arg Pro Ala Arg Pro Arg Pro
 65 70 75 80
 Val Leu Leu Arg Pro Ser Cys Ser Pro Gly Ala Arg Gly Ala Gly Thr
 85 90 95
 Trp Cys Cys Ala Pro Ala Thr Gly His Ser Ala Pro Arg Gly Cys Pro
 100 105 110
 Pro Ala Arg Ala Ala Pro Thr Gly Ser Ala Thr Pro Ala Pro Pro Pro
 115 120 125
 Ala Ala Cys Ala Ala Phe His Ser Ala Trp Ser Val Pro Pro Ala Gly
 130 135 140
 Arg Gln Gln Gly *
 145 148

<210> 1928
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 1928
 Met Ser Leu Trp Asn Gln Leu Val Val Pro Val Leu Phe Met Val Phe
 1 5 10 15
 Trp Leu Val Leu Phe Ala Leu Gln Ile Tyr Ser Tyr Phe Ser Thr Arg
 20 25 30
 Asp Gln Pro Ala Ser Arg Glu Arg Leu Leu Phe Leu Phe Leu Thr Ser

```

      35      40      45
Ile Ala Glu Cys Cys Ser Thr Pro Tyr Ser Leu Leu Gly Leu Val Phe
  50      55      60
Thr Val Ser Phe Val Ala Leu Gly Val Leu Thr Leu Cys Lys Phe Tyr
  65      70      75      80
Leu Gln Gly Tyr Arg Ala Phe Met Asn Asp Pro Ala Met Asn Arg Gly
      85      90      95
Met Thr Glu Gly Val Thr Leu Leu Ile Leu Ala Val Gln Thr Gly Leu
      100      105      110
Ile Glu Leu Gln Val Val His Arg Ala Phe Leu Leu Ser Ile Ile Leu
      115      120      125
Phe Ile Val Val Ala Ser Ile Leu Gln Ser Met Leu Glu Ile Ala Asp
      130      135      140
Pro Ile Val Leu Ala Leu Gly Ala Ser Arg Asp Lys Ser Leu Trp Lys
      145      150      155      160
His Phe Arg Ala Val Ser Leu Cys Leu Phe Leu Leu Val Phe Pro Ala
      165      170      175
Tyr Met Ala Tyr Met Ile Cys Gln Phe Phe His Met Asp Phe Trp Leu
      180      185      190
Leu Ile Ile Ile Ser Ser Ser Ile Leu Thr Ser Leu Gln Val Leu Gly
      195      200      205
Thr Leu Phe Ile Tyr Val Leu Phe Met Val Glu Glu Phe Arg Lys Glu
      210      215      220
Pro Val Glu Asn Met Asp Asp Val Ile Tyr Tyr Val Asn Gly Thr Tyr
      225      230      235      240
Arg Leu Leu Glu Phe Leu Val Ala Leu Cys Val Val Ala Tyr Gly Val
      245      250      255
Ser Glu Thr Ile Phe Gly Glu Trp Thr Val Met Gly Ser Met Ile Ile
      260      265      270
Phe Ile His Ser Tyr Tyr Asn Val Trp Leu Arg Ala Gln Leu Gly Trp
      275      280      285
Lys Ser Phe Leu Leu Arg Arg Asp Ala Val Asn Lys Ile Lys Ser Leu
      290      295      300
Pro Ile Ala Thr Lys Glu Gln Leu Glu Lys His Asn Asp Ile Cys Ala
      305      310      315      320
Ile Cys Tyr Gln Asp Met Lys Ser Ala Val Ile Thr Pro Cys Ser His
      325      330      335
Phe Phe His Ala Gly Cys Leu Lys Lys Trp Leu Tyr Val Gln Glu Thr
      340      345      350
Cys Pro Leu Cys His Cys His Leu Lys Asn Ser Ser Gln Leu Pro Gly
      355      360      365
Leu Gly Thr Glu Pro Val Leu Gln Pro His Ala Gly Ala Glu Gln Asn
      370      375      380
Val Met Phe Gln Glu Gly Thr Glu Pro Pro Gly Gln Glu His Thr Pro
      385      390      395      400
Gly Thr Arg Ile Gln Glu Gly Ser Arg Asp Asn Asn Glu Tyr Ile Ala
      405      410      415
Arg Arg Pro Asp Asn Gln Glu Gly Ala Phe Asp Pro Lys Glu Tyr Pro
      420      425      430
His Ser Ala Lys Asp Glu Ala His Pro Val Glu Ser Ala *
      435      440      445

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<210> 1929

<211> 120

<212> PRT

<213> Homo sapiens

<400> 1929

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Met Val Leu Pro Leu Pro Trp Leu Ser Arg Tyr His Phe Leu Arg Leu
 1          5          10          15
Leu Leu Pro Ser Trp Ser Leu Ala Pro Gln Gly Ser His Gly Cys Cys
          20          25          30
Ser Gln Asn Pro Lys Ala Ser Met Glu Glu Gln Thr Asn Ser Arg Gly
          35          40          45
Asn Gly Lys Met Thr Ser Pro Pro Arg Gly Pro Gly Thr His Arg Thr
          50          55          60
Ala Glu Leu Ala Arg Ala Glu Glu Leu Leu Glu Gln Gln Leu Glu Leu
 65          70          75          80
Tyr Gln Ala Leu Leu Glu Gly Gln Glu Gly Ala Trp Glu Ala Gln Ala
          85          90          95
Leu Val Leu Lys Ile His Lys Leu Lys Glu Gln Met Arg Arg His Gln
          100          105          110
Glu Ser Leu Gly Gly Gly Ala *
          115          119

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<210> 1930

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1930

```

Met Thr Trp Leu Val Leu Leu Gly Thr Leu Leu Cys Met Leu Arg Val
 1          5          10          15
Gly Leu Gly Thr Pro Asp Ser Glu Gly Phe Pro Pro Arg Ala Leu His
          20          25          30
Asn Cys Pro Tyr Lys Cys Ile Cys Ala Ala Asp Leu Leu Ser Cys Thr
          35          40          45
Gly Leu Gly Leu Gln Asp Val Pro Ala Glu Leu Pro Ala Gly Thr Ala
          50          55          60
Asp Leu Asp Leu Ser His Asn Ala Leu Gln Arg Met Arg Pro Gly Trp
 65          70          75          80
Leu Ala Pro Leu Phe Gln Leu Arg Ala Leu His Leu Asp His Asn Glu
          85          90          95
Leu His Ala Leu Asp Arg Gly Val Phe Val Asn Ala Ser Gly Leu Arg
          100          105          110
Leu Leu Asp Leu Ser Ser Asn Ala Glu Phe
          115          120          122

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<210> 1931

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1931

```

Met Ala Arg Ala Pro Ser Val Ala Leu Ala Gln Leu Trp Leu Ile Cys
 1          5          10          15
Leu Cys Pro Glu Ser Leu Ala Ser Phe Val Gln Ala Val Pro Trp Lys
          20          25          30
Val Leu Gln Pro Ser Ser Asn Arg Ser Thr Asp Cys Ser Pro His Met

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      35              40              45
Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg Lys Ala Gln Asp Leu Gly
      50              55              60
Ala Gly Tyr Tyr Val Ser Val His *
      65              70              72

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<210> 1932
 <211> 68
 <212> PRT
 <213> Homo sapiens

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      <400> 1932
Met Lys Thr Val Phe Thr Lys Lys Leu Thr Ala Ala Leu Leu Ile Thr
  1              5              10              15
Val Pro Asn Cys Lys Gln Pro Arg Cys Pro Ser Met Gly Glu Trp Leu
              20              25              30
Asn Lys Leu Gln Tyr Ile His Thr Met Lys Tyr Tyr Ser Thr Ile Lys
      35              40              45
Val Asn Tyr Trp Pro Gly Thr Val Ala His Thr Cys Asn Pro Ser Thr
      50              55              60
Leu Gly Gly *
      65              67

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<210> 1933
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

      <400> 1933
Met Gln Gln Arg Lys Met Arg Leu Val Trp Arg Ser Tyr Trp Ser Met
  1              5              10              15
Val Gln Thr Pro Met Leu Trp Met Ala Thr Glu Ile Pro His Phe Thr
              20              25              30
Gly Gln Pro Leu Arg Thr Met Leu Ser Val Cys Gly Leu Ser *
      35              40              45 46

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<210> 1934
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

      <400> 1934
Met Cys Trp Ser Pro Leu Thr Gly Trp Ala Leu Ser Ser Ser Arg Cys
  1              5              10              15
Arg Leu Ser Trp Pro Leu Thr Ser Phe Gly Ser Thr Ala Ser Cys Arg
      20              25              30
Pro Thr Thr Gly Trp Arg Gly Leu Met Trp Leu Gln Ala Leu Ser Ser
      35              40              45
Ser Gly Tyr Pro Ser Leu Cys Thr Leu Tyr Ser Glu Leu Leu Val Gln
      50              55              60

```

Ala Val His Arg Lys Ala Gly Asp Thr Glu Val Gln Gln Ser Leu Leu
 65 70 75 80
 Leu Leu Leu Lys Lys *
 85

<210> 1935
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1935
 Met Gly Glu Val Pro Lys Ala His Arg Leu Lys Leu Arg Trp Leu Phe
 1 5 10 15
 Pro Val Ser Leu Cys Arg Ala Pro Leu Leu Ser Thr Ala His Leu Ala
 20 25 30
 Leu Leu Leu Pro Cys Cys Leu Leu Cys Ser Ser Cys Tyr Tyr Phe Pro
 35 40 45
 Phe Leu Ser Leu Leu Pro Pro Trp Pro Asn Leu Phe His Arg Asn Ile
 50 55 60
 Thr Gly Pro Ala Arg His Ser Gly Ser Pro Leu *
 65 70 75

<210> 1936
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1936
 Met Leu Leu Gln Thr Phe Val Thr Thr Cys Ile Ser Tyr Phe Tyr Trp
 1 5 10 15
 His Phe Asn Phe Val Trp Ile Gln Phe Asn Val Cys Arg Val Leu Ser
 20 25 30
 Phe Gln Pro Glu Arg Leu Thr Leu Ala Phe Leu Ile Gly Gln Val Tyr
 35 40 45 48
 *

<210> 1937
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1937
 Met Lys Gly Arg Phe Leu Phe Pro Leu Arg Leu Leu Leu Trp Met Cys
 1 5 10 15
 Leu His Leu Gln Arg Gln Ala Ser Glu Leu His Gln Pro Ser Met Pro
 20 25 30
 Gly Cys Pro Leu Thr Ser Ser Ser Arg Leu Phe Asp Asn Ala Gln Met
 35 40 45
 His Gln Phe Leu Asn Ile His Val Lys Phe Glu Asn Cys Thr Phe Gly

50 55 60
 Glu Ile Lys Phe Tyr Ile Gln Leu Ala Lys Lys Lys
 65 70 75 76

<210> 1938
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 1938
 Met Ala Asp Glu Lys Thr Phe Arg Ile Gly Phe Ile Val Leu Gly Leu
 1 5 10 15
 Phe Leu Leu Ala Leu Gly Thr Phe Leu Met Ser His Asp Arg Pro Gln
 20 25 30
 Val Tyr Gly Thr Phe Tyr Ala Met Gly Ser Val Met Val Ile Gly Gly
 35 40 45
 Ile Ile Trp Ser Met Cys Gln Cys Tyr Pro Lys Ile Thr Phe Val Pro
 50 55 60
 Ala Asp Ser Asp Phe Gln Gly Ile Leu Ser Pro Lys Ala Met Gly Leu
 65 70 75 80
 Leu Glu Asn Gly Leu Ala Ala Glu Met Lys Ser Pro Ser Pro Gln Pro
 85 90 95
 Pro Tyr Val Arg Leu Trp Glu Glu Ala Ala Tyr Asp Gln Ser Leu Pro
 100 105 110
 Asp Phe Ser His Ile Gln Met Lys Val Met Ser Tyr Ser Glu Asp His
 115 120 125
 Arg Ser Leu Leu Ala Pro Glu Met Gly Gln Pro Lys Leu Gly Thr Ser
 130 135 140
 Asp Gly Gly Glu Gly Gly Pro Gly Asp Val Gln Ala Trp Met Glu Ala
 145 150 155 160
 Ala Val Val Ile His Lys Gly Leu Asn Glu Ser Glu Gly Glu Arg Arg
 165 170 175
 Leu Thr Gln Ser Trp Pro Gly Pro Leu Ala Cys Pro Gln Gly Pro
 180 185 190 191

<210> 1939
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1939
 Met Val Arg Ser Ile Arg Leu Leu Phe Phe Phe Gly Trp Gly Phe Ser
 1 5 10 15
 Thr Thr Gln Gln Pro Ser Leu Cys Gln Asn Ser Leu Met Phe Pro Asp
 20 25 30
 Gly Ser Ser Phe Thr Pro Leu Ser Glu Ala Pro Lys Gly Ser Phe Pro
 35 40 45
 Gly Val Trp Thr Thr His Ser Ser Leu Ser Pro Asp Thr Pro Pro Pro
 50 55 60
 Trp Val His Ser Ala Gly Trp Val Gln Thr Lys Trp Asn Pro Trp Asn
 65 70 75 80
 Leu *
 81

<210> 1940
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 1940
 Met His Val Cys Leu His Ile Trp Gly Leu Gly Val Cys Val Phe Met
 1 5 10 15
 His Met Met Cys Ala Cys Val Gly Val Tyr Val Cys Pro Phe Met Arg
 20 25 30
 Tyr Gly Met Gln Ile Cys Ala Cys Ile His Ala His Ser Cys Ser Ala
 35 40 45
 Cys Val Cys Ser Cys Ile Trp Cys Met His Gly Cys Ser Tyr Leu Trp
 50 55 60
 Gly Thr Gly Ile Met His Val Cys Ser Ser Val Trp Gly Val Gly Ile
 65 70 75 80
 Pro Gly Leu Trp Pro Glu Ala Pro Leu Gln Asp Thr Ala Pro Cys Arg
 85 90 95
 Leu Pro Arg Gly *
 100

<210> 1941
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1941
 Met Lys Ala Ser Val Leu Ser Pro Ser Phe Leu Leu Val Leu Trp Ser
 1 5 10 15
 Cys Phe Leu Ser Cys Ser Cys Met Glu Pro Gln Ser Gly Phe Pro Arg
 20 25 30
 Pro Ser Cys Phe Thr Val Gly Phe Leu Leu Arg Arg Arg Thr Lys Thr
 35 40 45
 Arg Arg Gln Lys Ala Thr Asn Thr Val Lys Met Arg Thr Thr Lys Ile
 50 55 60
 Leu Lys Ile Lys Ile Asp Lys Arg Arg Trp Pro Thr Arg Met Ser Ser
 65 70 75 80
 Lys Trp Asn Pro Lys Glu Trp *
 85 87

<210> 1942
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1942
 Met Arg Ser Met Gly Phe Arg Ala Gln Gly Leu Pro Phe Gly Ile Arg
 1 5 10 15
 Gln Thr Trp Leu Arg Ile Leu Asp Leu Leu Leu Thr Cys Thr Leu Pro

20 25 30
 Phe Gly Ser Arg Asp Val Lys Trp Arg Cys Cys His Leu *
 35 40 45

<210> 1943
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 1943
 Met Phe Thr Leu Leu Val Leu Leu Ser Gln Leu Pro Thr Val Thr Leu
 1 5 10 15
 Gly Phe Pro His Cys Ala Arg Gly Pro Lys Ala Ser Lys His Ala Gly
 20 25 30
 Glu Glu Val Phe Thr Ser Lys Glu Glu Ala Asn Phe Phe Ile His Arg
 35 40 45
 Arg Leu Leu Tyr Asn Arg Phe Asp Leu Glu Leu Phe Thr Pro Gly Asn
 50 55 60
 Leu Glu Arg Glu Cys Asn Glu Glu Leu Cys Asn Tyr Glu Glu Ala Arg
 65 70 75 80
 Glu Ile Phe Val Asp Glu Asp Lys Thr Ile Ala Phe Trp Gln Glu Tyr
 85 90 95
 Ser Ala Lys Gly Pro Thr Thr Lys Ser Asp Gly Asn Arg Glu Lys Ile
 100 105 110
 Asp Val Met Gly Leu Leu Thr Gly Leu Ile Ala Ala Gly Val Phe Leu
 115 120 125
 Val Ile Phe Gly Leu Leu Gly Tyr Tyr Leu Cys Ile Thr Lys Cys Asn
 130 135 140
 Arg Leu Gln His Pro Cys Ser Ser Ala Val Tyr
 145 150 155

<210> 1944
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1944
 Met Cys Gln His Val Gln Leu Ile Phe Val Phe Phe Val Glu Thr Gly
 1 5 10 15
 Phe His His Val Ala Gln Ala Gly Leu Lys Leu Leu Gly Ser Ser Asp
 20 25 30
 Leu Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Lys Gly Ile Ser His
 35 40 45
 His Val Gln Leu Lys Phe Leu Ile Ile Asn Asn Phe . *
 50 55 60

<210> 1945
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1945

```

Met Gln Leu Ile Leu Trp Leu Pro Trp Tyr Val Asp Gln Thr Phe Cys
 1              5              10              15
His Ser Val Leu Gln Cys Cys Cys Pro Gly Gln Leu Cys Gln Ser Phe
              20              25              30
His Ser Asn Arg Asn Asp Ala Arg Leu Leu Gly Ala Lys Gln Ser Ile
              35              40              45
Met Arg Arg Lys Arg Trp Leu Glu Pro Ser Val Arg Glu Cys Ala Pro
              50              55              60
Gly Met Ile Leu Tyr Lys Ile Gln Ser Tyr Leu Lys Ile Gln *
65              70              75              78

```

<210> 1946

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1946

```

Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
 1              5              10              15
His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
              20              25              30
Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
              35              40              45
Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
              50              55              60
Leu Ser Ile Val Ser Ile Ser *
65              70 71

```

<210> 1947

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1947

```

Met Trp Asn Val Ala Phe Leu Phe Gln Trp Phe Leu Ser Leu Lys Lys
 1              5              10              15
Glu Gly Arg Ser Ser Val Glu Thr Lys Asp Arg Arg Ser Val Arg Asp
              20              25              30
Leu Trp Gly Met Pro Lys Lys Met Val Ser Phe Gly Gly Glu Trp Leu
              35              40              45
Arg Glu Gly Leu Arg Glu Val *
50              55

```

<210> 1948

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1948

```

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala
 1          5          10          15
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
          20          25          30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly *
      35          40          45          47

```

<210> 1949

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1949

```

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1          5          10          15
His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
          20          25          30
Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
          35          40          45
Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
          50          55          60
Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
          65          70          75          80
Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
          85          90          95
Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
          100          105          110
Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Lys Arg Pro Gln Gly His Gly
          115          120          125
Phe Phe Cys Phe Leu Lys Ala Lys
          130          135 136

```

<210> 1950

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1950

```

Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
 1          5          10          15
Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
          20          25          30
Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
          35          40          45
Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
          50          55          60
His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
          65          70          75          77

```

<210> 1951

<211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1951
 Met Val Cys Gly Ala Leu Met Trp Ile Met Leu Ile Leu Val Gly Leu
 1 5 10 15
 Gly Phe Pro Phe Ile Met Glu Ala Leu Ser His Phe Leu Tyr Val Pro
 20 25 30
 Phe Leu Gly Val Cys Val Cys Gly Ala Ile Tyr Thr Gly Leu Phe Leu
 35 40 45
 Pro Glu Thr Lys Gly Lys Thr Phe Gln Glu Ile Ser Lys Glu Leu His
 50 55 60
 Arg Leu Asn Phe Pro Arg Arg Ala Gln Gly Pro Thr Trp Arg Ser Leu
 65 70 75 80
 Glu Val Ile Gln Ser Thr Glu Leu *
 85 88

<210> 1952
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1952
 Met Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu
 1 5 10 15
 Leu Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe
 20 25 30
 Val Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe *
 35 40 45 46

<210> 1953
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1953
 Met Lys Asn Leu Arg Leu Gly Glu Val Val Thr Leu Ser Trp Val Leu
 1 5 10 15
 Val Val Glu Leu Glu Val Lys Ala Lys Ser Val Phe Leu Leu Ala Ile
 20 25 30
 Leu Thr Thr Glu Phe Ser Leu Asn Gln Ser Leu Lys Met Phe Leu Gly
 35 40 45
 Gln Glu Trp Trp Phe Thr Leu *
 50 55

<210> 1954
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1954

Met	Thr	Leu	Arg	Pro	Gly	Thr	Met	Arg	Leu	Ala	Cys	Met	Phe	Ser	Ser	1	5	10	15
Ile	Leu	Leu	Phe	Gly	Ala	Ala	Gly	Leu	Leu	Leu	Phe	Ile	Ser	Leu	Gln	20	25	30	
Asp	Pro	Thr	Glu	Leu	Ala	Pro	Gln	Gln	Val	Pro	Gly	Ile	Lys	Phe	Asn	35	40	45	
Ile	Arg	Pro	Arg	Gln	Pro	His	His	Asp	Leu	Pro	Pro	Gly	Gly	Ser	Gln	50	55	60	
Asp	Gly	Asp	Leu	Lys	Glu	Pro	Thr	Glu	Arg	Val	Thr	Arg	Asp	Leu	Ser	65	70	75	80
Ser	Gly	Ala	Pro	Arg	Gly	Arg	Asn	Leu	Pro	Ala	Pro	Asp	Gln	Pro	Gln	85	90	95	
Pro	Pro	Leu	Gln	Arg	Gly	Thr	Arg	Leu	Arg	Leu	Arg	Gln	Arg	Arg	Arg	100	105	110	
Arg	Leu	Leu	Ile	Lys	Lys	Met	Pro	Ala	Ala	Ala	Thr	Ile	Pro	Ala	Asn	115	120	125	
Ser	Ser	Asp	Ala	Pro	Phe	Ile	Arg	Pro	Gly	Pro	Gly	Thr	Leu	Asp	Gly	130	135	140	
Arg	Trp	Val	Ser	Leu	His	Arg	Ser	Gln	Gln	Glu	Arg	Lys	Arg	Val	Met	145	150	155	160
Gln	Glu	Ala	Cys	Ala	Lys	Tyr	Arg	Ala	Ser	Ser	Ser	Arg	Arg	Ala	Val	165	170	175	
Thr	Pro	Arg	His	Val	Ser	Arg	Ile	Phe	Val	Glu	Asp	Arg	His	Arg	Val	180	185	190	
Leu	Tyr	Cys	Glu	Val	Pro	Lys	Ala	Gly	Cys	Ser	Asn	Trp	Lys	Arg	Val	195	200	205	
Leu	Met	Val	Leu	Ala	Gly	Leu	Ala	Ser	Ser	Thr	Ala	Asp	Ile	Gln	His	210	215	220	
Asn	Thr	Val	His	Tyr	Gly	Ser	Ala	Leu	Lys	Arg	Leu	Asp	Thr	Phe	Asp	225	230	235	240
Arg	Gln	Gly	Ile	Leu	His	Arg	Leu	Ser	Thr	Tyr	Thr	Lys	Met	Leu	Phe	245	250	255	
Val	Arg	Glu	Pro	Phe	Glu	Arg	Leu	Val	Ser	Ala	Phe	Arg	Asp	Lys	Phe	260	265	270	
Glu	His	Pro	Asn	Ser	Tyr	Tyr	His	Pro	Val	Phe	Gly	Lys	Ala	Ile	Leu	275	280	285	
Ala	Arg	Tyr	Arg	Ala	Asn	Ala	Ser	Arg	Glu	Ala	Leu	Arg	Thr	Gly	Ser	290	295	300	
Gly	Val	Arg	Phe	Pro	Glu	Phe	Val	Gln	Tyr	Leu	Leu	Asp	Val	His	Arg	305	310	315	320
Pro	Val	Gly	Met	Asp	Ile	His	Trp	Asp	His	Val	Ser	Arg	Leu	Cys	Ser	325	330	335	
Pro	Cys	Leu	Ile	Asp	Tyr	Asp	Phe	Val	Gly	Lys	Phe	Glu	Ser	Met	Glu	340	345	350	
Asp	Asp	Ala	Asn	Phe	Phe	Leu	Ser	Leu	Ile	Arg	Ala	Pro	Arg	Asn	Leu	355	360	365	
Thr	Phe	Pro	Arg	Phe	Lys	Asp	Arg	His	Ser	Gln	Glu	Ala	Arg	Thr	Thr	370	375	380	
Ala	Arg	Ile	Ala	His	Gln	Tyr	Phe	Ala	Gln	Leu	Ser	Ala	Leu	Gln	Arg	385	390	395	400
Gln	Arg	Thr	Tyr	Asp	Phe	Tyr	Tyr	Met	Asp	Tyr	Leu	Met	Phe	Asn	Tyr	405	410	415	
Ser	Lys	Pro	Phe	Ala	Asp	Leu	Tyr	*								420	424		

<210> 1955
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1955
 Met Val Cys Phe Leu Phe Ile Thr Pro Leu Ala Ala Ile Ser Gly Trp
 1 5 10 15
 Leu Cys Leu Arg Gly Ala Gln Asp His Leu Arg Leu His Ser Gln Leu
 20 25 30
 Glu Ala Val Gly Leu Ile Ala Leu Thr Ile Ala Leu Phe Thr Ile Tyr
 35 40 45
 Val Leu Trp Thr Leu Val Ser Phe Arg Tyr His Cys Gln Leu Tyr Ser
 50 55 60
 Glu Trp Arg Lys Thr Asn Gln Lys Val Arg Leu Lys Ile Arg Glu Ala
 65 70 75 80
 Asp Ser Pro Glu Gly Pro Gln His Ser Pro Leu Ala Ala Gly Leu Leu
 85 90 95
 Lys Lys Val Ala Glu Glu Thr Pro Val *
 100 105

<210> 1956
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1956
 Met Val Leu Pro Phe Ile Cys Asn Leu Leu Arg Arg His Pro Ala Cys
 1 5 10 15
 Arg Val Leu Val His Arg Pro His Gly Pro Glu Leu Asp Ala Asp Pro
 20 25 30
 Tyr Asp Pro Gly Glu Glu Asp Pro Ala Gln Ser Arg Ala Leu Glu Ser
 35 40 45
 Ser Leu Trp Glu Leu Gln Ala Leu Gln Arg His Tyr His Pro Glu Val
 50 55 60
 Ser Lys Ala Ala Ser Val Ile Asn Gln Ala Leu Ser Met Pro Glu Val
 65 70 75 80
 Ser Ile Ala Pro Leu Leu Glu Leu Thr Ala Tyr Glu Ile Phe Glu Arg
 85 90 95
 Asp Leu Lys Lys Lys Gly Pro Glu Pro Val Pro Thr Gly Val Leu Ser
 100 105 110
 Gln Pro Arg Ala Cys Trp Asp Gly Arg Val Lys Leu Cys Ala Gln His
 115 120 125
 Phe His Ala Gln Leu Thr Leu Ala His Leu *
 130 135 138

<210> 1957
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1957

```

Met Ala Ala Pro Trp Arg Arg Trp Pro Thr Gly Leu Leu Ala Val Leu
 1          5          10          15
Arg Pro Leu Leu Thr Cys Arg Pro Leu Gln Gly Thr Thr Leu Gln Arg
          20          25          30
Asp Gly Leu Leu Phe Glu His Asp Arg Gly Arg Phe Phe Thr Ile Leu
          35          40          45
Gly Leu Val Cys Ala Gly Gln Gly Gly Phe Trp Ala Ser Met Ala Gly
          50          55          60
Ala Gly Ala Leu Arg Thr Pro Gly Pro Leu Gln Gly Met Asn Val Glu
          65          70          75          80
Arg His Glu Leu Leu Phe *
          85 86

```

<210> 1958

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1958

```

Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp
 1          5          10          15
Val Ala Leu Ala Glu Gly Leu Gly Val Ala Glu Tyr Ala Pro Ala Ala
          20          25          30
Leu Pro Cys Ala Ala Cys Ala Thr Ile Leu Leu Ser Ser Val Ala *
          35          40          45          47

```

<210> 1959

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1959

```

Met Trp Ser Leu Ile Gln Thr Leu Gln Ile Leu Pro Gly Ser Leu Ser
 1          5          10          15
Ile Leu Leu Cys Ser Ser Ala Gly Trp Lys Asp Cys Gln Ser Ala Leu
          20          25          30
Trp Leu Asn His Val Phe Arg Arg Ala Trp Trp Leu Leu Pro Val Ile
          35          40          45
Leu Ala Leu Trp Glu Ala Glu Ala Gly Gly Ser Pro Glu Val Arg Ser
          50          55          60          64
*
```

<210> 1960

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1960

```

Met Ser Tyr Val Arg His Val Leu Ser Cys Leu Gly Gly Gly Leu Ala
 1           5           10           15
Leu Trp Arg Ala Gly Gln Trp Leu Trp Ala Gln Arg Leu Gly His Cys
           20           25           30
His Thr Tyr Trp Ala Val Ser Glu Glu Leu Leu Pro Asn Ser Gly His
           35           40           45
Gly Pro Asp Gly Glu Val Pro Lys Asp Lys Glu Gly Gly Val Phe Asp
           50           55           60
Leu Gly Pro Phe Ile Val Gly Phe Trp Gly Pro Gln Ile *
65           70           75           77

```

```

<210> 1961
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1961
Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
 1           5           10           15
His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
           20           25           30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
           35           40           45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
           50           55           60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu *
65           70           75           76

```

```

<210> 1962
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1962
Met Phe Ser Ala Val Phe Pro Ala Val Ser Cys Gln Ile Ser Leu Leu
 1           5           10           15
Ser Thr Cys Asn Ser Leu Gln His Phe Pro Tyr Ala Gly Val Leu Cys
           20           25           30
Phe Arg Pro Val Leu Cys Leu Cys Pro Gly Gln Asp Phe Cys Gly Asn
           35           40           45
Val Arg Cys Gln Trp Arg Leu Leu Ala Gly Val Asp Val Ser Asp Val
           50           55           60           64
*
```

```

<210> 1963
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature

```

<222> (1)...(53)

<223> Xaa = any amino acid or nothing

<400> 1963

```

Met Thr Cys Pro Leu His Thr Thr Pro Phe Pro Phe Ser Leu Pro Cys
 1          5          10          15
Leu Pro Thr Phe Phe Leu Asp Phe Pro Ser Cys Ser Leu Ser Ser Cys
          20          25          30
Leu Pro Ile Cys Phe Pro Phe Leu Ser Leu Xaa Gln Ile Leu His Ile
          35          40          45
Val Ala Leu Leu Ile
          50          53

```

<210> 1964

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1964

```

Met Pro Ser Val His Arg Leu Leu Gly Pro Gln Pro Val Pro Ser Arg
 1          5          10          15
Arg Leu Arg Leu Ala Leu Ala Leu Leu Ser Leu Gln Val Val Val
          20          25          30
Phe Phe Leu Val Val Leu Gly Gln Gly Arg Leu Leu Gln Pro Cys Arg
          35          40          45
Gly Cys Leu Glu Leu Pro Gly Gly Pro Gly Glu Ala Glu Asp His Gly
          50          55          60
Asp Leu Gly Gln Gly Trp Val Gly Leu Leu Gln Ala Leu Asp Pro Leu
          65          70          75          80
Ser His Arg Arg Leu Val Met Ser Thr Arg His Ala His Gly Glu Asp
          85          90          95
Arg Ala Phe Leu His Phe Ile Asp Val Lys Leu Val Val Val Pro Ala
          100          105          110
Thr Pro His Ile Leu Gln Val Gln Leu His Arg Val Val Glu Val Pro
          115          120          125
Leu Leu Arg Arg Leu Phe His Phe Pro Leu Leu Arg Gly Gln Gln Val
          130          135          140
Ser Ser Glu Asp Val Val Ile His Thr Leu Val Ala Glu Pro Gln Gly
          145          150          155          160
Glu Gly Ala Leu Asn Lys Asp Arg Pro Gly Trp Ile Val Ala Gly Gln
          165          170          175
Gly Gly Leu Leu Ile Gly Thr Leu Asp Ser Trp Cys Gly Asp Ile His
          180          185          190
Ala Leu Cys Pro Thr Met Trp Gly Trp Gly Gly Ser Ala Ala Pro Val
          195          200          205
Glu Ser Leu Gly Lys Gly Thr Ser Gly Glu Gly Asp Gly Arg Arg Gln
          210          215          220
Gly Gln Arg Thr Gly Pro Gly *
          225          230 231

```

<210> 1965

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1965

```

Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
 1           5           10           15
Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
      20           25           30
Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
      35           40           45
Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
      50           55           60
Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
      65           70           75           80
Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
      85           90           95
Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
      100           105           110
Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu
      115           120           125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
      130           135           140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
      145           150           155           160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
      165           170           175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
      180           185           190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
      195           200           205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
      210           215           220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
      225           230           235           240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
      245           250           252

```

<210> 1966

<211> 649

<212> PRT

<213> Homo sapiens

<400> 1966

```

Met Val Thr Cys Phe Ile Ile Gly Leu Leu Phe Pro Val Phe Ser Val
 1           5           10           15
Cys Tyr Leu Ile Ala Pro Lys Ser Pro Leu Gly Leu Phe Ile Arg Lys
      20           25           30
Pro Phe Ile Lys Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu
      35           40           45
Phe Leu Leu Leu Leu Ala Ser Gln His Ile Asp Arg Ser Asp Leu Asn
      50           55           60
Arg Gln Gly Pro Pro Pro Thr Ile Val Glu Trp Met Ile Leu Pro Trp
      65           70           75           80
Val Leu Gly Phe Ile Trp Gly Glu Ile Lys Gln Met Trp Asp Gly Gly
      85           90           95
Leu Gln Asp Tyr Ile His Asp Trp Trp Asn Leu Met Asp Phe Val Met

```

				100						105				110		
Asn	Ser	Leu	Tyr	Leu	Ala	Thr	Ile	Ser	Leu	Lys	Ile	Val	Ala	Phe	Val	
		115					120					125				
Lys	Tyr	Ser	Ala	Leu	Asn	Pro	Arg	Glu	Ser	Trp	Asp	Met	Trp	His	Pro	
	130					135					140					
Thr	Leu	Val	Ala	Glu	Ala	Leu	Phe	Ala	Ile	Ala	Asn	Ile	Phe	Ser	Ser	
145					150					155					160	
Leu	Arg	Leu	Ile	Ser	Leu	Phe	Thr	Ala	Asn	Ser	His	Leu	Gly	Pro	Leu	
				165					170					175		
Gln	Ile	Ser	Leu	Gly	Arg	Met	Leu	Leu	Asp	Ile	Leu	Lys	Phe	Leu	Phe	
		180						185					190			
Ile	Tyr	Cys	Leu	Val	Leu	Leu	Ala	Phe	Ala	Asn	Gly	Leu	Asn	Gln	Leu	
		195					200					205				
Tyr	Phe	Tyr	Tyr	Glu	Glu	Thr	Lys	Gly	Leu	Thr	Cys	Lys	Gly	Ile	Arg	
	210					215					220					
Cys	Glu	Lys	Gln	Asn	Asn	Ala	Phe	Ser	Thr	Leu	Phe	Glu	Thr	Leu	Gln	
225					230				235						240	
Ser	Leu	Phe	Trp	Ser	Ile	Phe	Gly	Leu	Ile	Asn	Leu	Tyr	Val	Thr	Asn	
				245					250					255		
Val	Lys	Ala	Gln	His	Glu	Phe	Thr	Glu	Phe	Val	Gly	Ala	Thr	Met	Phe	
			260					265					270			
Gly	Thr	Tyr	Asn	Asp	Ile	Ser	Leu	Val	Val	Leu	Leu	Asn	Met	Leu	Ile	
		275					280					285				
Ala	Met	Met	Asn	Asn	Ser	Tyr	Gln	Leu	Ile	Ala	Asp	His	Ala	Asp	Ile	
	290					295					300					
Glu	Trp	Lys	Phe	Ala	Arg	Thr	Lys	Leu	Trp	Met	Ser	Tyr	Phe	Glu	Glu	
305					310					315					320	
Gly	Gly	Thr	Leu	Pro	Thr	Pro	Phe	Asn	Val	Ile	Pro	Ser	Pro	Lys	Ser	
				325					330					335		
Leu	Trp	Tyr	Leu	Ile	Lys	Trp	Ile	Trp	Thr	His	Leu	Cys	Lys	Lys	Lys	
			340					345					350			
Met	Arg	Arg	Lys	Pro	Glu	Ser	Phe	Gly	Thr	Ile	Gly	Arg	Arg	Ala	Ala	
		355					360					365				
Asp	Asn	Leu	Arg	Arg	His	His	Gln	Tyr	Gln	Glu	Val	Met	Arg	Asn	Leu	
		370				375					380					
Val	Lys	Arg	Tyr	Val	Ala	Ala	Met	Ile	Arg	Asp	Ala	Lys	Thr	Glu	Glu	
385					390				395						400	
Gly	Leu	Thr	Glu	Glu	Asn	Phe	Lys	Glu	Leu	Lys	Gln	Asp	Ile	Ser	Ser	
				405				410					415			
Phe	Arg	Phe	Glu	Val	Leu	Gly	Leu	Leu	Arg	Gly	Ser	Lys	Leu	Ser	Thr	
			420					425					430			
Ile	Gln	Ser	Ala	Asn	Ala	Ser	Lys	Glu	Ser	Ser	Asn	Ser	Ala	Asp	Ser	
		435														

Cys Val Leu Val Asp His Arg Glu Arg Asn Thr Asp Thr Leu Gly Leu
 580 585 590
 Gln Val Gly Lys Arg Val Cys Pro Phe Lys Ser Glu Lys Val Val Val
 595 600 605
 Glu Asp Thr Val Pro Ile Ile Pro Lys Glu Lys His Ala Lys Glu Glu
 610 615 620
 Asp Ser Ser Ile Asp Tyr Asp Leu Asn Leu Pro Asp Thr Val Thr His
 625 630 635 640
 Glu Asp Tyr Val Thr Thr Arg Leu *
 645 648

<210> 1967
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1967
 Met Thr Gly Thr His Gln Tyr Ala Trp Val Ile Phe Val Phe Leu Ser
 1 5 10 15
 Thr Tyr Arg Ile Ser Pro Cys Trp Pro Gly Trp Phe Gln Thr Pro Gly
 20 25 30
 Leu Arg Trp Ser Ala Cys Leu Gly Leu Pro Gly Cys Trp Asp Cys Arg
 35 40 45
 Arg Glu Pro Leu Gly Pro Ala Cys Ile Phe Tyr Gln Pro Gln Ile Gln
 50 55 60
 Gln Gln Ala Glu Asp Ser Ala His Lys Thr Gly Leu Val Ser Trp *
 65 70 75 79

<210> 1968
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1968
 Met Thr Tyr Ile Leu Val Tyr Lys Leu Gly Ser Ile Leu Leu Ser Phe
 1 5 10 15
 Phe Leu Ile Cys Phe Glu Glu Phe Ser Ser Glu Asn Ser Gly Pro Gly
 20 25 30
 Ile Phe Phe Val Glu Arg Val Leu Ile Leu Asn Leu Ile Ser Leu Ile
 35 40 45 48
 *

<210> 1969
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1969
 Met His Val His Phe Trp Leu Val Thr Ala Ser Phe Ser Ser Ser Val

```

      1           5           10           15
Ala Trp Thr Thr Ala Glu Ile Thr Gly Gly Val Ser Gly Val Ala Ala
      20           25           30
Gly Val Gly Ser Trp Glu Gly Gly Ser Glu Arg Gly Asp Arg Phe Gly
      35           40           45
Asp Phe Phe Thr Leu Asn Val Ser Val Phe Arg Gly Val Phe Phe Phe
      50           55           60
Leu Ala Gly Leu Phe Ser Pro Ser Pro Ser Thr Pro Leu Ala Ser Ile
      65           70           75           80
Ala Leu Ala Gly Ile Ser Lys Glu Ala Gly Asp Leu Glu Gly Glu Leu
      85           90           95
Gly Val Leu Glu Asp Val Leu Lys Gly Ser Thr Asp Ser Ser Gln Val
      100           105           110
Ser Gly Ser Lys Leu Tyr Asp Cys Trp Gly Ser Leu Gly Asp Ser Cys
      115           120           125
Ile Phe Glu Val Glu Glu Lys Gly Leu Lys Leu Gly Ser Ser His Leu
      130           135           140
Ser Ile Ser Lys Val *
145           149

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<210> 1970
<211> 48
<212> PRT
<213> Homo sapiens

```

```

      <400> 1970
Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
      1           5           10           15
Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
      20           25           30
Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu *
      35           40           45           47

```

```

<210> 1971
<211> 64
<212> PRT
<213> Homo sapiens

```

```

      <400> 1971
Met Leu Ile Phe Thr Val Leu Glu Leu Leu Leu Ala Ala Tyr Ser Ser
      1           5           10           15
Val Phe Trp Trp Lys Gln Leu Tyr Ser Asn Asn Pro Gly Val Ser Met
      20           25           30
Leu Thr Cys Arg Leu Ile Pro Ala Val Ser Gln Val Gln Ala Thr Ile
      35           40           45
Ile Gln Pro Gln Lys Val Ala Lys Arg Arg Ile Asn Tyr Cys Ser *
      50           55           60           63

```

```

<210> 1972
<211> 211
<212> PRT

```

<213> Homo sapiens

<221> misc_feature

<222> (1)...(211)

<223> Xaa = any amino acid or nothing

<400> 1972

```

Met Thr Arg Met Leu Asn Met Leu Ile Val Phe Arg Phe Leu Arg Ile
 1           5           10           15
Ile Pro Ser Met Lys Pro Met Ala Val Val Ala Ser Thr Val Leu Gly
           20           25           30
Leu Val Gln Asn Met Arg Ala Phe Gly Gly Ile Leu Val Val Val Tyr
           35           40           45
Tyr Val Phe Ala Ile Ile Gly Ile Asn Leu Phe Arg Gly Val Ile Val
           50           55           60
Ala Leu Pro Gly Asn Ser Ser Leu Ala Pro Ala Asn Gly Ser Ala Pro
           65           70           75           80
Cys Gly Ser Phe Glu Gln Leu Glu Tyr Trp Ala Asn Asn Phe Asp Asp
           85           90           95
Phe Xaa Ala Ala Leu Val Thr Leu Trp Asn Leu Met Val Val Asn Asn
           100          105          110
Trp Gln Val Phe Leu Asp Ala Tyr Arg Arg Tyr Ser Gly Pro Trp Ser
           115          120          125
Lys Ile Tyr Phe Val Leu Trp Trp Leu Val Ser Ser Val Ile Trp Val
           130          135          140
Asn Leu Phe Leu Ala Leu Ile Leu Glu Asn Phe Leu His Lys Trp Asp
           145          150          155          160
Pro Arg Ser His Leu Gln Pro Leu Ala Gly Thr Pro Glu Ala Thr Tyr
           165          170          175
Gln Met Thr Val Glu Leu Leu Phe Arg Asp Ile Leu Glu Glu Pro Gly
           180          185          190
Glu Asp Glu Leu Thr Glu Arg Leu Ser Gln His Pro His Leu Trp Leu
           195          200          205
Cys Arg *
           210

```

<210> 1973

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1973

```

Met Ile Gln Tyr Ala Val Phe Val Leu Cys Gly Phe Leu Tyr Leu Cys
 1           5           10           15
Phe Met Leu Phe Phe Phe Ser Ser Val Thr Gln Ala Gly Val Ser Glu
           20           25           30
Pro Arg Ser Ser His Cys Thr Pro Ala Trp Ala Thr Glu Arg Asp Cys
           35           40           45
Val Ser Asn Lys *
           50           52

```

<210> 1974

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1974

```

Met Gly Val Thr Thr Ala Thr Leu Ile Ala Pro Ala Leu Arg Thr Leu
 1           5           10           15
Arg Thr Ser Ala Val Cys Ser Thr Thr Ala Glu Thr Ser Phe Ser Ala
      20           25           30
Cys Thr Phe Val Ser Thr Ser Cys Ser Lys Lys Gly Thr Pro Arg Phe
      35           40           45
Ser *
49

```

<210> 1975

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1975

```

Met Cys Ser Ser Pro Ala Val Leu Leu Cys Ala Leu Val Val Gly Cys
 1           5           10           15
Pro Val Gly Phe Pro His Glu Ala Asp Pro Gly Ser Met Gln Arg Ala
      20           25           30
Ser Ser Leu Gly Leu His Gln Ala Ser Val Val Ser Ala Gly Trp Leu
      35           40           45
Gly Gln Ala Arg His Gly Ala His Leu Gly Cys Ser Leu Leu Pro Ser
      50           55           60
Gly Val His Gly Leu Trp Arg Pro Ser Val Gln Pro Arg Arg Asp Pro
      65           70           75           80
Val Thr Glu Leu Gln Cys *
      85 86

```

<210> 1976

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1976

```

Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
 1           5           10           15
Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Ala Ala Ala
      20           25           30
Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
      35           40           45
Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln
      50           55           60
His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe
      65           70           75           80
Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Gln Gln Gly Asp Arg
      85           90           95
Leu Arg Val Pro Leu Val Ser Trp Arg Arg *
      100           105 106

```

<210> 1977
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1977
 Met Val Thr Val Ala Met Ala Cys Ser Gly Ala Leu Thr Ala Leu Cys
 1 .5 10 15
 Cys Leu Phe Val Ala Met Gly Val Leu Arg Val Pro Trp His Cys Pro
 20 25 30
 Leu Leu Leu Val Thr Glu Gly Leu Leu Asp Met Leu Ile Ala Gly Gly
 35 40 45
 Tyr Ile Pro Ala Leu Tyr Phe Tyr Phe His Tyr Leu Ser Ala Ala Tyr
 50 55 60
 Gly Ser Pro Val Cys Lys Glu Arg Gln Ala Leu Tyr Gln Ser Lys Gly
 65 70 75 80
 Tyr Ser Gly Phe Gly Cys Ser Phe His Gly Ala Asp Ile Gly Ala Gly
 85 90 95
 Ile Phe Ala Ala Leu Gly Ile Val Val Phe Ala Leu Gly Ala Val Leu
 100 105 110
 Ala Ile Lys Gly Tyr Arg Lys Val Arg Lys Leu Lys Glu Lys Pro Ala
 115 120 125
 Glu Met Phe Glu Phe *
 130 133

<210> 1978
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1978
 Met Thr Leu Arg Met Leu Val Pro Arg Leu Leu Leu Thr Arg Gln Leu
 1 5 10 15
 Val Trp Phe Phe Ser Ala Ala Thr Glu Arg Asp Pro Glu Met Met Asn
 20 25 30
 Gly Ile Pro Arg Lys Leu Met Ser Phe Pro Pro Ser Ser Val Thr Ser
 35 40 45
 Arg Arg Ser Arg Arg Gly His His Leu Gln Ser Leu *
 50 55 60

<210> 1979
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1979
 Met Leu Thr Ala Leu Pro Lys Ser Phe Val Phe Lys Val Val Gly Glu
 1 5 10 15
 Trp Trp Trp Leu Phe Ile Cys Leu Val Leu Ala Phe Ala Asp Gly Lys

```

          20          25          30
Arg His Lys Tyr Ser Tyr Asp Ala Asn Val Phe Leu Gln Val Asn Tyr
      35          40          45
Ile Thr Trp Pro Asp Ser Phe Ser Pro Val Pro Ser Leu Pro Pro Ile
      50          55          60
Leu *
      65

```

<210> 1980
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

          <400> 1980
Met Asp Thr Pro Arg Ser Thr Val Phe Ser Leu Trp Phe Gly Ile His
  1          5          10          15
Lys Ala Ala Gly Ile Phe Gln Val Leu Val Gln Leu Leu Leu Leu
      20          25          30
Thr Pro Tyr Pro Arg Tyr Pro Ser Pro Ser Pro Leu Pro Pro Tyr Ser
      35          40          45
Tyr Pro *
      50

```

<210> 1981
 <211> 79
 <212> PRT
 <213> Homo sapiens

```

          <400> 1981
Met Met Trp Ala Ala Gly Ala Val Ala Ala Met Ser Ser Ile Thr Phe
  1          5          10          15
Pro Ala Val Ser Ala Leu Val Ser Arg Thr Ala Asp Ala Asp Gln Gln
      20          25          30
Gly Glu Leu Ile Gly Thr Ser Asp Asn Tyr Leu Lys Val Gln Asn Val
      35          40          45
Leu Ile Leu Cys Ser Val Ser Tyr Val Leu Lys His Lys Tyr Ile Phe
      50          55          60
Arg Gly Glu Thr Phe Lys Ile Ala Phe Asp Ile Asn Arg Lys Ser
      65          70          75          79

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<210> 1982
 <211> 156
 <212> PRT
 <213> Homo sapiens

```

          <400> 1982
Met His Asn Asn Tyr Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe
  1          5          10          15
Phe Val Leu Met Leu Leu Val Leu Asp Leu Leu Tyr Tyr Ser Ala Met
      20          25          30

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Asn Tyr Asp Ile Cys Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly
   35           40           45
Arg Trp Met Lys Gln Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala
   50           55           60
Pro Arg Pro Gly Gln Arg Ala Pro Gln Pro Gln Pro Pro Gly Pro
   65           70           75           80
Leu Pro Gln Ala Pro Gln Ala Val His Thr Leu Arg Gly Asp Ala His
           85           90           95
Ser Pro Pro Leu Met Thr Phe Gln Ser Ser Ser Ala Trp Glu Gly Ala
           100          105          110
Ser Gln Gln Gln Glu Ile Pro Glu Asn Glu Glu Thr Glu Lys Gly Asp
           115          120          125
Asp Gln Ile Ser Ser Phe Leu Gly Val Thr Ser Asn Thr Lys Glu Ala
           130          135          140
Ser Val Ile Gly Ile Gln Lys Thr Val Asp Val Leu
145           150          155 156

```

<210> 1983
 <211> 63
 <212> PRT
 <213> Homo sapiens

```

<400> 1983
Met Arg Leu Ile Arg Ile Trp Phe Ser Gly Lys Phe Phe Pro Ala Gly
  1           5           10           15
Leu His Ser Gln Ser Leu Pro Ser Ile Ser Ala Ala Ile Gly Leu Leu
           20           25           30
Met Leu Phe Thr Asn Leu Phe Thr Cys Ser Lys Cys Phe Val Ile Ser
           35           40           45
Val Ala Lys Thr Met Ser Ile Ile Ala Trp Arg Ser Val Arg *
           50           55           60           62

```

<210> 1984
 <211> 232
 <212> PRT
 <213> Homo sapiens

```

<400> 1984
Met Phe His Arg Cys Gly Ile Met Ala Leu Val Ala Ala Tyr Leu Asn
  1           5           10           15
Phe Val Ser Gln Met Ile Ala Val Pro Ala Phe Cys Gln His Val Ser
           20           25           30
Lys Val Ile Glu Ile Arg Thr Met Glu Ala Pro Tyr Phe Leu Pro Glu
           35           40           45
His Ile Phe Arg Asp Lys Cys Met Leu Pro Lys Ser Leu Glu Lys His
           50           55           60
Glu Lys Asp Leu Tyr Phe Leu Thr Asn Lys Ile Ala Glu Ser Leu Gly
           65           70           75           80
Gly Lys Trp Asp Ile Val Leu Arg Asp Cys Gln Phe Arg Met Leu Pro
           85           90           95
Gln Val Thr Asp Glu Asp Arg Leu Ser Arg Arg Lys Ser Ile Val Asp
           100          105          110
Thr Val Ser Ile Gln Val Asp Ile Leu Ser Asn Asn Val Pro Ser Asp

```

```

      115              120              125
Asp Val Val Ser Asn Thr Glu Glu Ile Thr Phe Glu Ala Leu Lys Lys
      130              135              140
Ala Ile Asp Thr Ser Gly Met Glu Glu Gln Glu Lys Glu Lys Arg Arg
      145              150              155              160
Leu Val Ile Glu Lys Phe Gln Lys Ala Pro Phe Glu Glu Ile Ala Ala
      165              170              175
Gln Cys Glu Ser Lys Ala Asn Leu Leu His Asp Arg Leu Ala Gln Ile
      180              185              190
Leu Glu Leu Thr Ile Arg Pro Pro Pro Ser Pro Ser Gly Thr Leu Thr
      195              200              205
Ile Thr Ser Gly His Ala Gln Tyr Gln Ser Val Pro Val Tyr Glu Met
      210              215              220
Lys Phe Pro Asp Leu Cys Val Tyr
      225              230              232

```

<210> 1985
 <211> 141
 <212> PRT
 <213> Homo sapiens

```

      <400> 1985
Met Asn Leu Ser Leu Pro Phe Leu Cys Leu Phe Leu Leu Ser Phe Ser
      1              5              10              15
Phe Lys Leu Ala Leu Gln Leu Arg Lys Val Ser Leu Leu Ser Leu Arg
      20              25              30
Leu Trp Gly Gln Ser Ile Cys Cys Leu Glu Lys Glu Gly Asn Gln Asp
      35              40              45
Ser Ser Gly Thr Gln Met Ser Ser Ser Leu Ala Leu Leu Asn Pro Leu
      50              55              60
Leu His Asn Trp Ser Phe Ile Leu Ala Leu Asn Asp Pro Ala Gly His
      65              70              75              80
His Gly Phe Leu Phe Leu Leu Val Phe Phe Phe Ser Glu Thr Glu Ser
      85              90              95
His Ser Val Thr Gln Ala Gly Val Gln Trp Arg Asp Leu Ser Ser Leu
      100              105              110
Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Phe Cys Leu Ser Leu Pro
      115              120              125
Ser Ser Trp Asp Tyr Arg Cys Ala Thr Thr Pro Gly *
      130              135              140

```

<210> 1986
 <211> 292
 <212> PRT
 <213> Homo sapiens

```

      <400> 1986
Met Ile Ser Val Ser Ala Met Ala Ile Ala Phe Leu Thr Leu Gly Tyr
      1              5              10              15
Phe Phe Lys Ile Lys Glu Ile Lys Ser Pro Glu Met Ala Glu Asp Trp
      20              25              30
Asn Thr Phe Leu Leu Arg Phe Asn Asp Leu Asp Leu Cys Val Ser Glu
      35              40              45

```

```

Asn Glu Thr Leu Lys His Leu Thr Asn Asp Thr Thr Thr Pro Glu Ser
 50                      55                      60
Thr Met Thr Ser Gly Gln Ala Arg Ala Ser Thr Gln Ser Pro Gln Ala
 65                      70                      75                      80
Leu Glu Asp Ser Gly Pro Val Asn Ile Ser Val Ser Ile Thr Leu Thr
                      85                      90                      95
Leu Asp Pro Leu Lys Pro Phe Gly Gly Tyr Ser Arg Asn Val Thr His
                      100                      105                      110
Leu Tyr Ser Thr Ile Leu Gly His Gln Ile Gly Leu Ser Gly Arg Glu
                      115                      120                      125
Ala His Glu Glu Ile Asn Ile Thr Phe Thr Leu Pro Thr Ala Trp Ser
                      130                      135                      140
Ser Asp Asp Cys Ala Leu His Gly His Cys Glu Gln Val Val Phe Thr
145                      150                      155                      160
Ala Cys Met Thr Leu Thr Ala Ser Pro Gly Val Phe Pro Val Thr Val
                      165                      170                      175
Gln Pro Pro His Cys Val Pro Asp Thr Tyr Ser Asn Ala Thr Leu Trp
                      180                      185                      190
Tyr Lys Ile Phe Thr Thr Ala Arg Asp Ala Asn Thr Lys Tyr Ala Gln
                      195                      200                      205
Asp Tyr Asn Pro Phe Trp Cys Tyr Lys Gly Ala Ile Gly Lys Val Tyr
210                      215                      220
His Ala Leu Asn Pro Lys Leu Thr Val Ile Val Pro Asp Asp Asp Arg
225                      230                      235                      240
Ser Leu Ile Asn Leu His Leu Met His Thr Ser Tyr Phe Leu Phe Val
                      245                      250                      255
Met Val Ile Thr Met Phe Cys Tyr Ala Val Ile Lys Gly Arg Pro Ser
                      260                      265                      270
Lys Leu Arg Gln Ser Asn Pro Glu Phe Cys Pro Glu Lys Val Ala Leu
275                      280                      285
Ala Glu Ala *
290 291

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<210> 1987

<211> 186

<212> PRT

<213> Homo sapiens

<400> 1987

```

Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
 1                      5                      10                      15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
                      20                      25                      30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
                      35                      40                      45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
50                      55                      60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
65                      70                      75                      80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
                      85                      90                      95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
                      100                      105                      110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
115                      120                      125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu

```

```

      130              135              140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
145              150              155              160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165              170              175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180              185

```

<210> 1988
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

      <400> 1988
Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
 1              5              10              15
Val Val Cys Phe Ser Phe Ser Tyr Gly Val Glu Pro Pro Lys Ser Trp
      20              25              30
Ser Gln Gly Lys Lys Gly Val Val Thr Gly Asp Ser Leu Leu *
      35              40              45 46

```

<210> 1989
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1989
Met Thr Leu Pro Cys Ala Ile Gln Met Phe Ile Ala Ala Val Gln Val
 1              5              10              15
Leu Ser Val Thr Tyr Leu Asp Leu Gln Pro His Leu Asn Glu Ser Leu
      20              25              30
Leu Thr Val Ser Leu Ile Phe Arg Phe Ile Phe Asn Leu Leu Phe Tyr
      35              40              45
Leu Gly Leu Thr Phe Ser Val Thr Lys *
      50              55              57

```

<210> 1990
 <211> 80
 <212> PRT
 <213> Homo sapiens

```

      <400> 1990
Met Ile Ser Phe Val Leu Val Lys Gly Leu Phe Leu Lys Cys Thr Phe
 1              5              10              15
His Phe Pro Leu Phe Asn Arg His Ile Met Ser Cys Ser Phe Leu Arg
      20              25              30
Ser Asp Phe Met His Gly Asp Ser Met Cys Phe Ser Ser Tyr Met
      35              40              45
Leu Leu Asn Glu Ser Leu Tyr Ile Ser Phe His Thr Met Val Ile Lys
      50              55              60

```

Thr His Trp Ala Val Cys Gly Cys Gly Phe Ile Ser Glu Lys Leu *
 65 70 75 79

<210> 1991
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1991
 Met Val Arg Trp Lys Arg Glu Ile His Glu Leu Leu Trp Pro Leu Trp
 1 5 10 15
 Phe Cys Ser Trp Pro Arg Val Phe Glu Lys Gln Arg Ser Met Thr Asp
 20 25 30
 Phe Thr Cys Ser Ala Phe Ser Ala Phe Cys Leu Phe Cys Cys Pro *
 35 40 45 47

<210> 1992
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1992
 Met Leu Phe Ser Leu Gln Thr Ala Ile Val Tyr Cys Thr Ile Thr Val
 1 5 10 15
 Leu Cys His Arg Thr Leu Ile Phe Ser Ser Met His Lys Cys Ile Met
 20 25 30
 Leu Phe Pro Ile Ile His Ile Cys Ser Tyr Val Phe Phe Val Ile Tyr
 35 40 45
 Ser Phe *
 50

<210> 1993
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1993
 Met Trp Cys Ala Glu Met Leu His Ile Leu Phe Met Gly Leu Arg Val
 1 5 10 15
 Asn Leu Asn His Glu Thr Phe Leu Ile Ile Cys Cys Glu Ile Tyr Gln
 20 25 30
 Ala Trp Met Ile Ser Val Phe Leu Val Val Cys Cys Phe Phe Lys Glu
 35 40 45
 Val Ile Gln Val Pro Leu Leu Ser Cys Gln His Thr Lys Leu Leu Lys
 50 55 60
 Lys Leu Thr Ile Ser Phe Arg Ser Asn Ser Gln Pro Val Glu *
 65 70 75 78

<210> 1994
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1994
 Met Thr Ser Leu Gln Lys Arg Leu Leu Ser His Cys Met Gln Cys Thr
 1 5 10 15
 Met Leu Leu Gly Ile Cys Gly Gln Cys Lys Asp Asp Asp Ile Leu Ala
 20 25 30
 Ser Trp Val Ile Gln Glu Phe Thr Ala Met Gln Ser Arg Ser Arg Asn
 35 40 45
 Leu Gln Ser Arg
 50 52

<210> 1995
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 1995
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1 5 10 15
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
 50 55 60
 Lys Glu Arg Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
 65 70 75 80
 Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
 85 90 95
 Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
 100 105 110
 Thr Ile Thr Tyr Ser Tyr Ala Gly Gln Ser Thr His Gly Pro Gly
 115 120 125
 Leu Pro Ala Leu Leu Gln Ala Ser Pro Ser Pro Trp Cys Leu Cys Arg
 130 135 140
 Leu Ala Asp Val Leu Ala Arg Arg Gly Ser Met Pro Glu Pro Pro Leu
 145 150 155 160
 Cys Ile Cys *
 163

<210> 1996
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1996
 Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
 1 5 10 15

```

His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
      20      25      30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
      35      40      45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
      50      55      60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu *
      65      70      75 76

```

<210> 1997
 <211> 233
 <212> PRT
 <213> Homo sapiens

```

<400> 1997
Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser
 1      5      10      15
Phe Ser Lys Ala Arg Glu Glu Glu Ile Thr Pro Val Val Ser Ile Ala
      20      25      30
Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr
      35      40      45
Cys Cys Ala Pro Gln Pro Pro Pro Ile Thr Tyr Ser Leu Cys Gly
      50      55      60
Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro
      65      70      75      80
Ala Ser Phe Asn Leu Asn Val Thr Leu Lys Ser Ser Pro Asp Leu Leu
      85      90      95
Thr Tyr Phe Cys Arg Ala Ser Ser Thr Ser Gly Ala His Val Asp Ser
      100      105      110
Ala Arg Leu Gln Met His Trp Glu Leu Trp Ser Arg Gln Arg Gly Arg
      115      120      125
Pro Gln Gly Gly Asp Asp Leu Pro Gly Val Leu Gly Gln Pro Thr Tyr
      130      135      140
His Gln Gln Pro Asp Arg Glu Gly Trp Ala Gly Pro Pro Ala Ala Glu
      145      150      155      160
Thr Met Pro Gln Glu Ala Cys Gln Leu Ser Pro Ser Cys Arg Ala Arg
      165      170      175
His Arg Thr Trp Phe Trp Cys Gln Ala Cys Lys Gln Arg Gln Cys Ser
      180      185      190
Ser Thr Ala Pro Ser Gln Trp Leu Pro Gln Val Val Thr Gln Lys Met
      195      200      205
Glu Asp Trp Gln Gly Pro Pro Gly Glu Pro His Pro Cys Leu Ala Ala
      210      215      220
Leu Gln Glu His Pro Pro Ser Glu *
      225      230      232

```

<210> 1998
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

<400> 1998
Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly

```

```

      1           5           10           15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
      20           25           30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
      35           40           45
Val Gln His His Ala Trp Leu Ile Phe *
      50           55           57

```

<210> 1999
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

      <400> 1999
Met Trp Leu Leu Val Thr Leu Ser Pro Arg Leu Leu Leu Ser Pro Ser
  1           5           10           15
His Phe Thr Leu Glu Gly Pro Gln Ile Asp Gln Ala His Ser Glu Leu
      20           25           30
Gln Val Leu Pro Leu Val Arg Pro Ser Ala Val Pro Leu Leu Gln Arg
      35           40           45
Ala Ser Trp Leu Arg Ser Arg Cys Leu His Leu Pro Lys Thr Val Leu
      50           55           60
Val *
      65

```

<210> 2000
 <211> 106
 <212> PRT
 <213> Homo sapiens

```

      <400> 2000
Met Gly Arg Cys Leu Ser Leu Gly Ile Leu Arg Gln Gly Leu Cys Cys
  1           5           10           15
Pro Cys Trp Ser Val Val Ala Glu Ser Gly Leu Thr Ala Ser Leu Gly
      20           25           30
Gly Ser Gly His Pro Ala Thr Ser Cys Ser Lys Glu Ala Gly Thr Thr
      35           40           45
Gly Glu Cys Met His His Thr Gln Leu Gly Ile Gln Thr Leu Arg Thr
      50           55           60
Tyr Tyr Met Pro Asp Ser Val Glu Leu Ser Glu Thr Met Ser Gly Cys
      65           70           75           80
Asn Trp Leu Pro Thr Gln Gln Thr Gln Ser Trp Ala Asn Ile Leu Arg
      85           90           95
Val Tyr Leu Thr Leu Lys Tyr Arg Phe Ser
      100           105 106

```

<210> 2001
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 2001

```

Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1           5           10           15
Ala Leu Pro Asn Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Val Arg
           20           25           30
Gly Arg Gly Arg Leu Gly His Val Gly Ser Trp Gly Ser Ser Arg Pro
           35           40           45
Gly Trp Arg Gly Leu Lys Glu Cys Cys Cys Gln Glu Leu Arg Gly Pro
           50           55           60
Glu Arg Gly Val Tyr Ala Trp Arg Gly Gln Asp Leu Lys Gly Arg Arg
 65           70           75           80
Tyr Leu Ala Glu Gly His Leu *
           85           87

```

<210> 2002

<211> 85

<212> PRT

<213> Homo sapiens

<400> 2002

```

Met Arg Lys Leu Ile Ala Gly Leu Ile Phe Leu Lys Ile Trp Thr Cys
 1           5           10           15
Thr Val Arg Thr Ser Thr Asp Leu Pro Gln Thr Glu Asp Cys Ser Gln
           20           25           30
Cys Ile His Gln Val Thr Glu Ile Gly Gln Lys Val Ala Thr Val Leu
           35           40           45
Leu Phe Tyr Gly Tyr Tyr Lys Tyr Thr Gly Thr Leu Lys Arg Thr Cys
           50           55           60
Leu Tyr Asn Val Ile Leu Tyr Lys Val Tyr Ser Pro Gly Asn Asp Gln
 65           70           75           80
Pro Asp Val Leu *
           84

```

<210> 2003

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2003

```

Met Ala Phe Ala Ser Val Leu Leu Ala Arg Ala Ser Pro Ala Val Val
 1           5           10           15
Arg Ala Cys Leu Ser Arg Cys Ala Tyr Gly Val Gly Ser Asp Cys Pro
           20           25           30
His Leu Val Thr Leu Ala Ala Leu Ile Leu Phe Trp Val *
           35           40           45

```

<210> 2004

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2004

```

Met Trp Leu Phe Ile Ala Ser Lys Cys Ile Phe Leu Leu Ile Val Pro
 1           5           10           15
Asn Phe Ile Phe Val Phe Trp Arg Lys Val Phe Ser His Asp Arg Leu
           20           25           30
Asn Ile Ala Tyr Ser Phe Glu Leu Ser Ser Lys Tyr Ile Phe Ile Leu
      35           40           45
Phe Ile *
      50

```

<210> 2005

<211> 66

<212> PRT

<213> Homo sapiens

<400> 2005

```

Met Val Glu Val Val Ser Leu Leu His Leu Tyr Ala Val Ala Cys Ala
 1           5           10           15
Arg Lys Gly Pro Phe Pro Asn Thr Lys Asp Leu Ser Gly Trp Thr Pro
           20           25           30
Ser Ser Gly Arg Glu Glu Leu Trp Lys Gly Lys Arg Ala Ala Ala Ala
      35           40           45
Thr Arg Asn Pro Leu Val Leu Thr Gly Leu Gly Ser Pro Ser Ala Arg
      50           55           60
Leu *
      65

```

<210> 2006

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2006

```

Met Leu Val Pro Thr Phe Phe Leu Leu Ser Leu Leu Asp Gln Ser Cys
 1           5           10           15
Leu Ser Ile Cys Val Ser Gln Asp Tyr Phe Ser Ser Ile Val Val Gln
           20           25           30
Ile Arg Gln Ile Gly Ser Leu Cys Leu Asn Lys Ser Leu *
      35           40           45

```

<210> 2007

<211> 87

<212> PRT

<213> Homo sapiens

<400> 2007

```

Met Pro Thr Leu Ala Lys Trp Ile Leu Ser Leu Ser Met Thr Ser Thr
 1           5           10           15

```

```

Thr Trp Ser Pro Cys Ser Ser Met Ile Pro Leu Met Ala Ser Ser Thr
      20      25      30
Ala Pro Ser Arg Leu Arg Thr Gly Ser Leu Pro Ser Met Thr Ile Pro
      35      40      45
Ser Pro Ser Arg Arg Ser Glu Ile Pro Pro Lys Ser Ser Gly Val Met
      50      55      60
Pro Ala Leu Ile Ile Leu Trp Arg Pro Pro Ala Ser Leu Pro Ala Trp
      65      70      75      80
Arg Arg Leu Gly Ile Thr *
      85  86

```

<210> 2008

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2008

```

Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly
  1      5      10      15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
      20      25      30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
      35      40      45
Val Gln His His Ala Trp Leu Ile Phe *
      50      55      57

```

<210> 2009

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2009

```

Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
  1      5      10      15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
      20      25      30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met
      35      40      45  46

```

<210> 2010

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2010

```

Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu
  1      5      10      15
Leu Leu Ile Ser Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
      20      25      30
Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr

```

```

      35      40      45
Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr
  50      55      60
Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu
  65      70      75      80
Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn
      85      90      95
Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr
      100      105      110
Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys
      115      120      125
Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr
      130      135      140
Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe
      145      150      155      160
Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met
      165      170      175
Cys Gln Tyr Asp Tyr Val Glu Gly Cys Asp Gly Asp Asn Arg Asp Gly
      180      185      190
His Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Ala Ala Pro Ile His
      195      200      205
Asn Ile Arg Ile Leu Thr Ser Arg Pro Phe Pro Leu Pro Gly Leu Ser
      210      215      220
Lys Ile Leu Thr Gly Phe His Ala Pro Phe *
      225      230      234

```

<210> 2011
 <211> 61
 <212> PRT
 <213> Homo sapiens

```

      <400> 2011
Met Val Phe Ala Trp Gly Leu Ala Val Asn Lys Thr Ser Leu Val Pro
  1      5      10      15
Ile Phe Met Asp Leu Ser Leu Ala Gly Lys Ile Tyr Ile Lys Gln Arg
      20      25      30
Met Arg Met Glu Glu Asn Leu Leu Gly Asp Asn Glu Val Lys Glu Glu
      35      40      45
Lys Asp Gln Ala Val Lys Trp Gln Thr Leu Arg Trp *
      50      55      60

```

<210> 2012
 <211> 107
 <212> PRT
 <213> Homo sapiens

```

      <400> 2012
Met Ile Arg Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Phe Leu Thr
  1      5      10      15
Leu Leu Leu Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly
      20      25      30
Arg Gly Trp Leu Gln Ser Ser Asp Arg Val Gln Thr Ser Ser Leu Trp
      35      40      45

```

```

Arg Arg Cys Phe Leu Pro Gln Gly Arg Arg Arg Arg Gln Arg Val Leu
  50                      55                      60
Arg Gly Arg Leu Pro Gln Pro His Gly Val Arg Val Gly Ser Ser Ser
  65                      70                      75                      80
Ala Ala Met Leu Phe Trp Gly Val Ser Ile Leu Glu Ile Cys Phe Ile
      85                      90                      95
Leu Ser Phe Phe Val Leu Cys Val Pro Gln Ile
      100                      105                      107

```

<210> 2013
 <211> 67
 <212> PRT
 <213> Homo sapiens

```

<400> 2013
Met Gly Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp
  1                      5                      10                      15
Gly Pro Thr Leu Pro Ile Leu Arg Gln Arg Val Leu Gly Arg Lys Ile
      20                      25                      30
Pro Asp Ser Val Phe His Val Arg Arg Leu Arg Ala Pro Tyr Pro Lys
      35                      40                      45
Asp Val Gly Pro Arg Pro Ile Gln Thr Ala Asn His Ser Pro Asn Gln
  50                      55                      60
Gly Ala *
  65 66

```

<210> 2014
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

<400> 2014
Met Phe Leu Arg Phe Pro Leu Arg Phe Gly Ile Leu Ala Asp Lys Leu
  1                      5                      10                      15
Ile Leu Tyr Lys Ala Ser His Phe Thr Met Leu Ser Val Pro Gly Leu
      20                      25                      30
Tyr Leu Ser Thr Leu Leu Glu Gly Ile Phe Ile Leu Lys Lys Leu Ser
      35                      40                      45
Phe Met Arg Arg Met Gly Val His Ala Thr *
  50                      55                      58

```

<210> 2015
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

<400> 2015
Met Val Arg Leu Gln Val Leu Val Leu Val Phe Arg Val Val Gly Ser
  1                      5                      10                      15
Gln Gln Met Leu Arg Gln Gly Ala Ala Gly Ala Arg Ser His Arg Val

```

```

      20      25      30
Leu Ala Ser Leu His Phe Gln His Gly Phe Gly Thr Phe His Thr Pro
      35      40      45
Ala Arg Ala Gly Gly Ser Glu
      50      55

```

<210> 2016
 <211> 64
 <212> PRT
 <213> Homo sapiens

```

      <400> 2016
Met Ser Leu Arg Phe Cys Phe Cys Leu Pro Val Cys Pro Ser Leu Pro
  1      5      10      15
Ile Ser Val Phe His Val Phe Leu Ser Val Ser Asp His Pro Val Ser
      20      25      30
Leu Cys Leu Thr Val Ser Gly His Glu Met Ser Val Ile Val Ala Arg
      35      40      45
Phe Thr Leu Ser Leu Tyr Leu Phe Pro Leu Arg Ser Gly Ile Ser *
      50      55      60      63

```

<210> 2017
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 2017
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
  1      5      10      15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
      20      25      30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
      35      40      45
Ser Ser Arg Pro Ala Trp Pro Ile Arg *
      50      55      57

```

<210> 2018
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

      <400> 2018
Met Leu His Ile Ser Ser Ala Phe His Cys Tyr Ala Phe Leu Pro Leu
  1      5      10      15
Phe Ala Leu Thr His Asn Phe Ile Phe Leu Phe Tyr Leu Leu Ser Leu
      20      25      30
Ser Pro Lys Leu Glu Cys Lys Phe Gln Glu Gly Arg Asp Phe Tyr Leu
      35      40      45
Phe Phe Phe Val Phe Pro Ile Phe Trp His Val Trp His Arg Lys Gly
      50      55      60

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PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rule 13ter.1(c) and 39)

Applicant's or agent's file reference 21272-018	IMPORTANT DECLARATION	Date of mailing (day/month/year) 87 JUN 2001
International application No. PCT/US01/02687	International filing date (day/month/year) 25 January 2001 (25.01.2001)	(Earliest) Priority date (day/month/year) 25 January 2000 (25.01.2000)
International Patent Classification (IPC) or both national classification and IPC IPC(7): C12P 21/06 and US CL.: 435/69.1		
Applicant HYSEQ, INC.		

This International Searching Authority hereby declares, according to Article 17(2)(a), that no international search report will be established on the international application for the reasons indicated below.

1. ☐ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essential biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☐ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☒ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
☒ the claims
☐ the drawings
3. ☒ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.
☒ the computer readable form has not been furnished or does not comply with the standard.
4. Further comments:

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Authorized officer
Young J. Kim

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